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# Seminar

# *An introduction to bordered sutured Floer homology*

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***Abstract***

Sutured Floer homology, defined by Juhasz, is a generalization of Heegaard Floer homology to 3-manifolds with a sutured boundary; certain flavors of link Floer homology and graph Floer homology can also be viewed in this framework. In another direction, Lipshitz, Ozsvath, and Thurston generalized Heegaard Floer homology to 3-manifolds with a parametrized boundary, which, most importantly, can be glued together along the parametrized boundary; this theory is called bordered Floer homology. In this expository talk, we will discuss Zarev's construction to combine the two theories into one, called bordered sutured Floer homology. This is a powerful invariant that allows cut-and-paste techniques in computing sutured Floer homology.

Date: 6 August 2018 (Monday)
Time: 1:30pm – 3:00pm
Venue: Room 222, Lady Shaw Building,
The Chinese University of Hong Kong, Shatin

*All are Welcome*