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# Seminar

## *The Milnor numbers and the Heegaard Floer homology*

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### Abstract

In the joint work with E. Gorsky, T. Lidman and A. Moore, we explicitly describe the relationship between some Milnor invariants and the Heegaard Floer homology. Precisely, we give the relationship between the  $h$ -function, the Milnor triple linking number, the Sato-Levine invariant and the Casson invariant for general links of linking number 0. As applications, the Sato-Levine invariant gives an obstruction for 2-component L-space links to be the unlinks, and non-vanishing of the triple linking number gives strong restrictions on  $d$ -invariants and topological properties of integral homology spheres obtained by Dehn surgeries of the 3-sphere along the link.

Date: ~~21 August 2019 (Wednesday)~~ **22 August 2019 (Thursday)**

Time: 2:00pm – 3:00pm

Venue: Room 222, Lady Shaw Building,  
The Chinese University of Hong Kong, Shatin

*All are Welcome*