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Zhongtao Wu* (ztwu@math.cuhk.edu.hk), Department of Mathematics, Chinese University of Hong Kong, Hong Kong, Hong Kong, and **Fan Ding** and **Youlin Li**. *Contact Surgery along Legendrian Links*.

In this talk, we introduce the contact invariant due to Ozsvath-Szabo and then use algebraic methods to prove various vanishing results of the invariant for 3-manifolds obtained from contact surgeries. In addition, we use contact-geometric methods to give sufficient conditions for the contact 3-manifold obtained from the standard contact 3-sphere by contact (+1) surgery along a Legendrian two-component link being overtwisted. This is a joint work with Fan Ding and Youlin Li. (Received December 31, 2018)