

## **ALGEBRAICALLY OVERTWISTED TIGHT CONTACT 3-MANIFOLDS FROM CONTACT +1 SURGERIES**

**Fudan Topology Seminar**

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**Time: Fri, May. 17th, 15:00 - 16:00**

**Venue: Room 102, SCMS**

**Abstract:** In this talk, we find many algebraically overtwisted and tight 3-manifolds by contact +1 surgeries. In particular, we show that a contact  $1/k$  surgery on the standard contact 3-sphere along any Legendrian positive torus knot with the maximal Thurston - Bennequin invariant yields an algebraically overtwisted and tight 3-manifold, where  $k$  is a positive integer. This is joint work with Zhengyi Zhou.