

**Alberto Cavallo**

**Title: Transverse links in Stein fillable contact 3-manifolds**

**Abstract:** We study the behavior of different versions of the Ozsváth-Szabó  $\tau$ -invariant for holomorphically fillable links in Stein domains. More specifically, we relate the Hedden's contact version of the invariant with the smooth one introduced by Grigsby, Ruberman and Strle. This is joint work with Antonio Alfieri. The main goal of the talk is to describe how our work allows us to recover results about properly embedded holomorphic curves, such as the slice-Bennequin inequality and the relative Thom conjecture, and to find new restrictions on the topology of Stein fillings of certain 3-manifolds.