

## ***EQUIVARIANT K-STABILITY AND ALPHA INVARIANTS***

**Speaker: Ziwen Zhu**

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**Time: Fri, Dec. 02, 14:30-15:30**

**Venue: Room 102, SCMS**

### **Abstract:**

Tian's criterion in terms of alpha invariant is one of the practical tools to determine K-stability of Fano varieties. However, the criterion fails to be applicable in many cases. For some varieties with large symmetry, an equivariant version of Tian's criterion works. In this talk, I will discuss some recent development on equivariant K-stability and mention some applications. I will also talk about a recent project related to higher codimensional alpha invariants which potentially generalizes Tian's criterion. Part of my talk is based on joint work with Yuchen Liu.