

**Toshiki Mabuchi**

Title: Donaldson-Tian-Yau's Conjecture and its extremal Kähler version

Abstract: By clarifying the concepts of various relative stabilities, we shall discuss the extremal Kähler version of Donaldson-Tian-Yau's conjecture on the existence of extremal Kähler metrics on polarized algebraic manifolds.