

A VALUATIVE CRITERION OF K-POLYSTABILITY

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Time: Wed, Oct 30th, 16:00 - 16:30

Venue: Room 102, SCMS

Abstract:

If the delta invariant of a Fano manifold is greater than one, then the Fano manifold is K-stable and admits a KE metric. In this case, it admits no nontrivial holomorphic vector field. For a Fano manifold with nontrivial holomorphic vector fields, we will introduce another "delta" invariant characterizing its K-polystability. Moreover, the g-weighted version of this invariant can be used to characterizing the existence of g-solitons on a Fano manifold. As an application, we will give a family of Fano threefolds admitting g-solitons for any weight function g.