



The Hong Kong University of Science and Technology

Department of Mathematics

Seminar on Pure Mathematics

**Generalized Kaehler-Einstein metrics on
Riemann surfaces and applications**

By

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Abstract

In this talk, we shall discuss Song-Tian's (possibly singular) generalized Kaehler-Einstein metrics on the canonical models of projective manifolds with semi-ample canonical line bundle. When the canonical model is one dimensional (i.e. a Riemann surface), we give the metric asymptotics of the generalized Kaehler-Einstein metric near its singular points, implying a special case of a conjecture of Song and Tian. Then we present some applications of this result in studying infinite-time singularities of the Kaehler-Ricci flow.

Date: Tuesday, 12 February 2019

Time: 4:00p.m. - 5:00p.m.

**Venue: Room 4472, Academic Building
(near Lifts 25-26), HKUST**

All are welcome!