

KODAIRA-TYPE VANISHINGS VIA NONABELIAN HODGE THEORY

Speaker: Chuanhao Wei

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Time: Thu, Dec. 15, 14:30-15:30

Venue: Room 102, SCMS; Tencent Meeting ID: 355 742 870 Password: 221215

Abstract:

In the past decade, Mochizuki has completed the spectacular theory of mixed Twistor D-modules. In this talk, I will first briefly introduce this result. Then, I will show that Kodaira-type vanishing still holds under the setting of mixed Twistor D-modules, which generalizes Saito vanishing under the setting of mixed Hodge Modules. I will also introduce a version of Kawamata-Viehweg vanishing with \mathbb{Q} -divisors, and an effective global generalization theorem as an application.