

TWISTOR STRUCTURES & DECOMPOSITION THEOREM OF SEMISIMPLE LOCAL SYSTEM

Speaker: Chuanhao Wei
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Time: Mon, Jan. 25th, 14:00-15:00

Venue: Room 102, Shanghai Center for Mathematical Sciences

Abstract: In this talk, I will first recall Simpson's nonabelian Hodge theory and Theory of Twistor structures. Then I will show various geometric results proved by using Hodge theory can be generalized to the cases with semisimple local system coefficients, using Twistor structures. This is motivated by works of de Cataldo and Milgiorini in Hodge Theory. This talk is based on a joint project with Ruijie Yang.