THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

PHD STUDENT SEMINAR

Bridgeland stability conditions and low degree curves on Quadratic threefold

By

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Abstract

Bridgeland introduced a new stability condition which is motivated from the study of D branes in string theory. We have known that this stability exsit for all Fano threefolds. In this seminar, we consider the wall crossing phenomenon of Bridgeland stability when the fixed vector is the Chern character vector of ideal sheaves of low degree curves in quadratic threefold. We try to describe the moduli space for each chamber which has tightly related to the Hilbert scheme of curves in quadratic threefold.

Date   :   14 May 2024 (Tuesday)

Time   :   10:00am

Venue :   Room 3598 (Lifts 27-28)

All are Welcome!