

DERIVED CATEGORIES OF HYPER-KÄHLER VARIETIES

Speaker: Ruxuan Zhang
Shanghai Center for Mathematical Sciences

Time: Wed, Oct 30th, 15:30 - 16:00

Venue: Room 102, SCMS

Abstract:

In this presentation, I will discuss some results concerning the derived categories of hyper-Kähler varieties of $K3^{[n]}$ type. I will elucidate Markman's theory of hyperholomorphic bundles on the product of two hyper-Kähler varieties and show how these bundles lead to twisted derived equivalences. Additionally, I will present some open problems.