

 SCMS Seminar**DERIVED CATEGORIES OF HYPER-KÄHLER VARIETIES****Speaker: Ruxuan Zhang****Shanghai Center for Mathematical Sciences****Time: Sun, Sep 28th, 16:00-16:30****Venue: Room 110, SCMS****Abstract:**

In this presentation, I will discuss some results concerning the derived categories of hyper-Kähler varieties of $K3^{[n]}$ -type. I will state a derived Torelli conjecture for $K3^{[n]}$ -type varieties and provide some examples of the conjecture, including the D-equivalence theorem and the equivalence between two fine moduli spaces of objects of the same dimension.