ON THE HODGE THEORY OF TOROIDAL EMBEDDINGS AND CORRESPONDING VANISHINGS

Speaker:Chuanhao Wei
Westlake University

Time: Wed., Jun. 26th, 14:00-15:00PM

Venue:Room 106, SCMS

Abstract:

Deligne's logarithmic comparison theorem and the degeneracy of the spectural sequence of logarithmic de Rham complex gives the mixed Hodge structure of a projective smooth variety with a normal crossing boundary divisor. In this talk, we will try to build a similar theory on toroidal embeddings. In particular, we will show the E_1-degeneracy of the spectral sequence of the logarithmic de Rham complex of any toroidal triple. This gives a geometric proof of a more general version of Danilov's conjecture.