

ON THE DE RHAM-BETTI CONJECTURE

Speaker: Mingmin Shen University of Amsterdam

Time: Fri, Apr. 7, 15:00-17:00

Venue: Room 102, SCMS

Abstract:

When an algebraic variety is defined over a number field, the comparison between algebraic de Rham cohomology and its Betti cohomology very interesting complex numbers produces called periods. The Grothendieck Period Conjecture says that these complex numbers have transcendence degree. conjecture This maximal possible can be decomposed into several independent sub-conjectures. We will investigate some of them, called de Rham-Betti conjecture(s), in the case of abelian varieties and hyperKahler varieties. This is joint work with Tobias Kreutz and Charles Vial.