

Bruno Klingler: An André-Oort conjecture for variations of Hodge structures

Given a smooth family X of complex algebraic varieties (or more generally an admissible variation of Hodge structures) over a smooth quasi-projective base S , can we describe the locus in S of fibers "with complex multiplication"? In this talk I will describe a conjecture generalizing the classical André-Oort conjecture (corresponding essentially to the case where X is a family of Abelian varieties) and partial results towards it.