

# **THE COLEMAN-OORT CONJECTURE ON THE FINITENESS OF CM CURVES**

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**Time: Fri, Oct. 21, 16:00-17:00**

**Venue: Room 102, Shanghai Center for Mathematical Sciences**

## **Abstract:**

The Coleman-Oort conjecture predicts that for each fixed genus  $g \gg 0$ , there are at most finitely many complex algebraic curves of genus  $g$  whose Jacobians are abelian varieties with complex multiplication. In this talk, I would like to give an introduction to this conjecture and report our progress on it. It is based on joint works with Ke Chen and Kang Zuo.