Title: On semisimplicity of quantum cohomology of \mathbb{P}^1 -orbifolds **Speaker:** Hua-Zhong Ke (Sun Yat-sen University)

Abstract: A conjecture of Dubrovin states that a smooth projective variety has semisimple quantum cohomology if and only if its bounded derived category of coherent sheaves admits a full exceptional collection. It is natural to consider this conjecture for orbifolds. We will verify Dubrovin's conjecture for orbi-curves. The key observation is that the big quantum cohomology of a \mathbb{P}^1 -orbifold C is generically semisimple. We also show that the small quantum cohomology of C is generically semisimple iff C is Fano, i.e. it has positive orbifold Euler characteristic.