**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  $\mathbb{C}$  is generically semisimple. We also show that the small quantum cohomology of  $\mathbb{C}$  is generically semisimple iff  $\mathbb{C}$  is Fano, i.e. it has positive orbifold Euler characteristic.