

## *THE KAPLANSKY CONJECTURES*

**Fudan Topology Seminar**

**Speaker: Giles Gardam**

**University of Münster**

**Time: Thur, Dec. 15th, 13:30-15:30**

**Meeting Zoom ID: 853 0188 1524      password: Fudan2022**

**Abstract:** There is a series of four fundamental and long-standing conjectures on group rings attributed to Kaplansky. For example, the zero divisor conjecture states that the group ring of a torsion-free group with field coefficients has no zero divisors. I will discuss these conjectures, their connections to other open questions in various areas of mathematics, and my recent disproof of the unit conjecture.