

**Speaker:** Michael Magee

**Title:** The maximal spectral gap of a hyperbolic surface

**Abstract:** The study of spectral gaps of hyperbolic surfaces, instigated by a group of people including Randol in the late 60s and early 70s, has a rich and interesting history. After discussing this history I'll describe recent results on the maximal possible spectral gap of a compact hyperbolic surface as its genus tends to infinity. If time allows, I'll discuss what should happen in higher dimensions. Based on (different) joint works with Hide, Louder, and Thomas.