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Around the Riemann-Roch Theorem for Abelian varieties

In this talk, I will explain how the Riemann-Roch Theorem for divisors on an Abelian variety A is related to the reduced norms of the Wedderburn components of its endomorphism algebra. Motivated by this result, I will also mention more recent observations, building on work of Atiyah, Brion, Mukai and others, which pertain to Severi-Brauer varieties over A. For example, the Brauer group of A can be interpreted through the concept of theta groups.