

Speaker: Matt Ziemke (USC)

Title: A Direct Approach to the Bounded Borel Functional Calculus for Bounded Normal Operators

Abstract: A functional calculus is a theory allowing one to apply functions to operators while preserving many important properties. We will first define the continuous functional calculus for bounded normal operators with minimal use of Gelfand-Naimark theory. From here we will extend the functional calculus to bounded functions using weak limits rather than integrals or spectral measures.