Analysis Seminar

Title: Universal Fourier and Taylor series

Speaker: S. Gardiner

Date: Tue 13th March 2018 at 4:00PM

Location: SCN 125

Abstract: It has long been known that there exist trigonometric series, the partial sums of which possess universal approximation properties on the unit circle. It turns out that, for most smooth functions on the unit circle, the partial sums of the associated Fourier series, when extended to the plane, have universal approximation properties off the circle. There are also related results for pairs of Taylor and Laurent series arising from functions that are holomorphic off a Jordan curve. (This is joint work with Vassili Nestoridis and Christos Papadimitropoulos.)