# Analysis Seminar

## "Shift Operators on Harmonic Function Spaces"

By

## H. Turgay Kaptanoğlu (Bilkent)

**Abstract:** In an attempt to identify the harmonic Drury-Arveson space, we introduce a whole new family of reproducing kernel Hilbert spaces of harmonic functions on the unit ball of R^n. We also define and derive basic properties of shift operators on these spaces. We show that the norm of one of these spaces is maximal among those with a certain type of reproducing kernel and on which the shifts are a row contraction.
This is ongoing joint work with Daniel Alpay of Chapman University.

**Date:** Tuesday, March 19, 2019

**Time:** 16:00-17:00

**Place:** Mathematics Seminar Room, SA – 141

Tea and cookies will be served before the seminar.