# Analysis Seminar

## Thursday, May 5, 2016

### 12:00-13:00 – Room 646 PGH

**Speaker:** Jose Carrion (TCU)

**Title:** Order zero approximations of nuclear $C^*$-algebra

**Abstract:** Nuclear $C^*$-algebras enjoy a number of approximation properties, most famously the completely positive approximation property. The CPAP was sharpened by Hirshberg, Kirchberg and White, who arranged the incoming maps to be sums of order zero maps. We discuss a further improvement where the outgoing maps can be chosen asymptotically order-zero. The approximations can be improved further under some quasidiagonal assumptions. This is joint work with Nate Brown and Stuart White.