

## Spring Mini Courses in Analysis and Geometry

### Feichtinger's Conjecture

February 8 - 11, 2018

*Speaker:* Peter G. Casazza - *University of Missouri*

There will be three lectures each followed by discussion-seminars on the Feichtinger conjecture:

- (1) We start with a brief introduction to frame theory. Next we look at the origins of the Feichtinger Conjecture in Signal Processing. We will then look at the most recent solutions to the Feichtinger Conjecture and the best constants obtained so far.
- (2) We will look at equivalent forms of the Feichtinger Conjecture including the Kadison-Singer Problem, The Paving Conjecture, The Projection Paving Conjecture, the  $R(\epsilon)$  Conjecture, the Bourgain-Tzifiriri Conjecture, the Harmonic Analysis Conjecture,
- (3) The solution to the Feichtinger Conjecture due to Marcus, Spielman, and Srivastava using the Weaver Conjecture. The Casazza/Tremain Conjecture and its strongest form available today.