## Positivstellensätze in Graph Theory

## Tim Netzer

University of Leipzig, Germany tim.netzer@math.uni-leipzig.de

Session: 30. Real Algebraic Geometry, applications and related topics

Finding inequalities between subgraph-densities is an important topic in extremal graph theory. I will explain how sums of squares techniques can be used for such questions, and I will prove several Positivstellensätze in this setup. Joint work with Andreas Thom.