

# Angular Synchronization: setup, relaxations and newest error bounds

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31.01.2020

## Abstract

The problem of angular synchronization naturally arises in the recovery of phaseless measurements, clock synchronization and computer vision. It requires the reconstruction of the vector of angles from their pairwise differences. As reconstruction is an NP hard problem, two common relaxations are used instead: semi-definite problem and eigenvector-based. In this talk, we compare available recovery guarantees and present our new stronger bounds. This talk is based on the joint work with Felix Kraemer and Frank Filbir.

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