Workshop

Imaging of Stellar Surfaces

ESO Garching, March 5-9, 2018

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Title:

Imaging stellar surfaces with an agile 12-telescopes visible interferometer for the VLTI

Abstract:

Imaging stellar surfaces with an optical interferometer requires a large number of telescopes and the extensive use of the bootstrapping technique to reach the high spatial frequencies where the surface details are revealed. An idea would use all 6 dual-star delay lines of VLTI to deploy an agile 12-telescopes single-mode visible interferometer on the Paranal mountain. The concept relies on single-mode fiber technologies that have been demonstrated by the `OHANA and `OHANA IKI projects. We present the expected performance of this concept and explore its potential for the study of stellar surfaces.