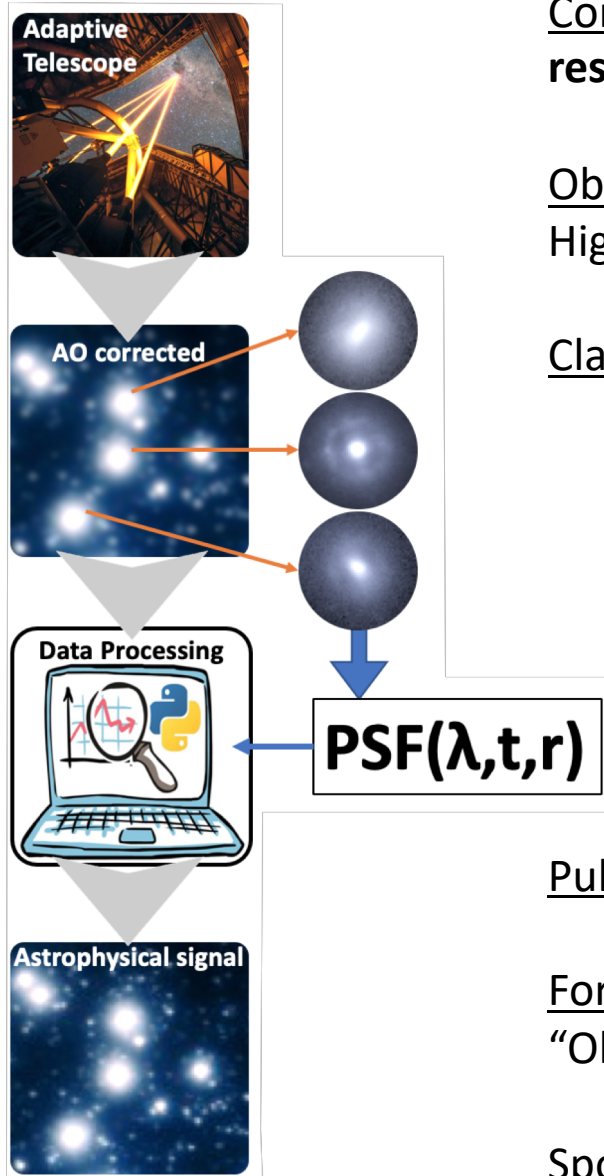


– Summer School 2020 –

High-Angular Resolution observations from the ground (hitchhiker guide to the PSF)



Context: With the deployment of adaptive telescopes and the upcoming ELTs high-angular resolution is the new standard for ground-based observations.

Objective of the school: Prepare the new generation of astronomers to make the best use of their High-Angular Resolution data

Classes:

- Introduction to the main HAR science cases: state of the art and future challenges
- (Virtual) Guided tour to the largest observatories around the world
- Instrumentation with high-angular and spectral resolution
- Adaptive Optics: Concepts, performance & limitations
- The Point Spread Function: Atmosphere, AO, Telescope, instruments
- Data-processing: Astrometry, photometry, spectroscopy, Machine learning
- How to prepare the observations (proposal writing, optimizing the observations)

Public: PhDs, post-doc + anyone else interested

Format: 5 days with theoretical courses, hands-on experience with data-processing, observations at “Observatoire Haute Provence”, Public seminar ...

Sponsors: CNRS, H2020-OPTICON, ESO

Around Marseille, Fall 2020.