All about Maria Bazzicalupo

Educational background :

- Bachelor's degree in Astronomy at the University of Padova
- Master's degree in Astrophysics and Cosmology at the University of Padova

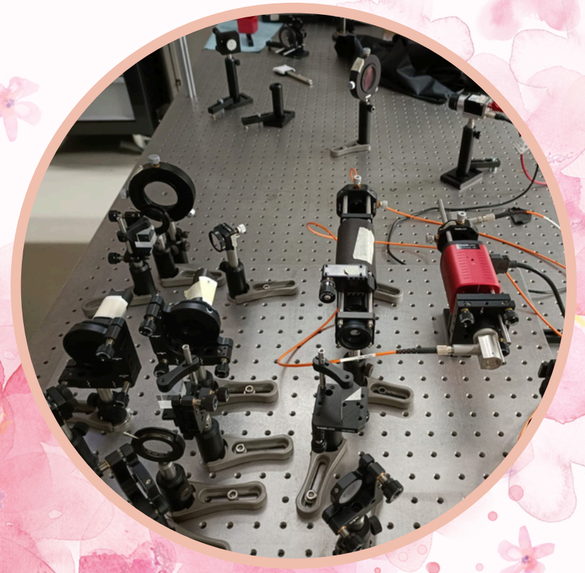
Previous Research and Work Experience:

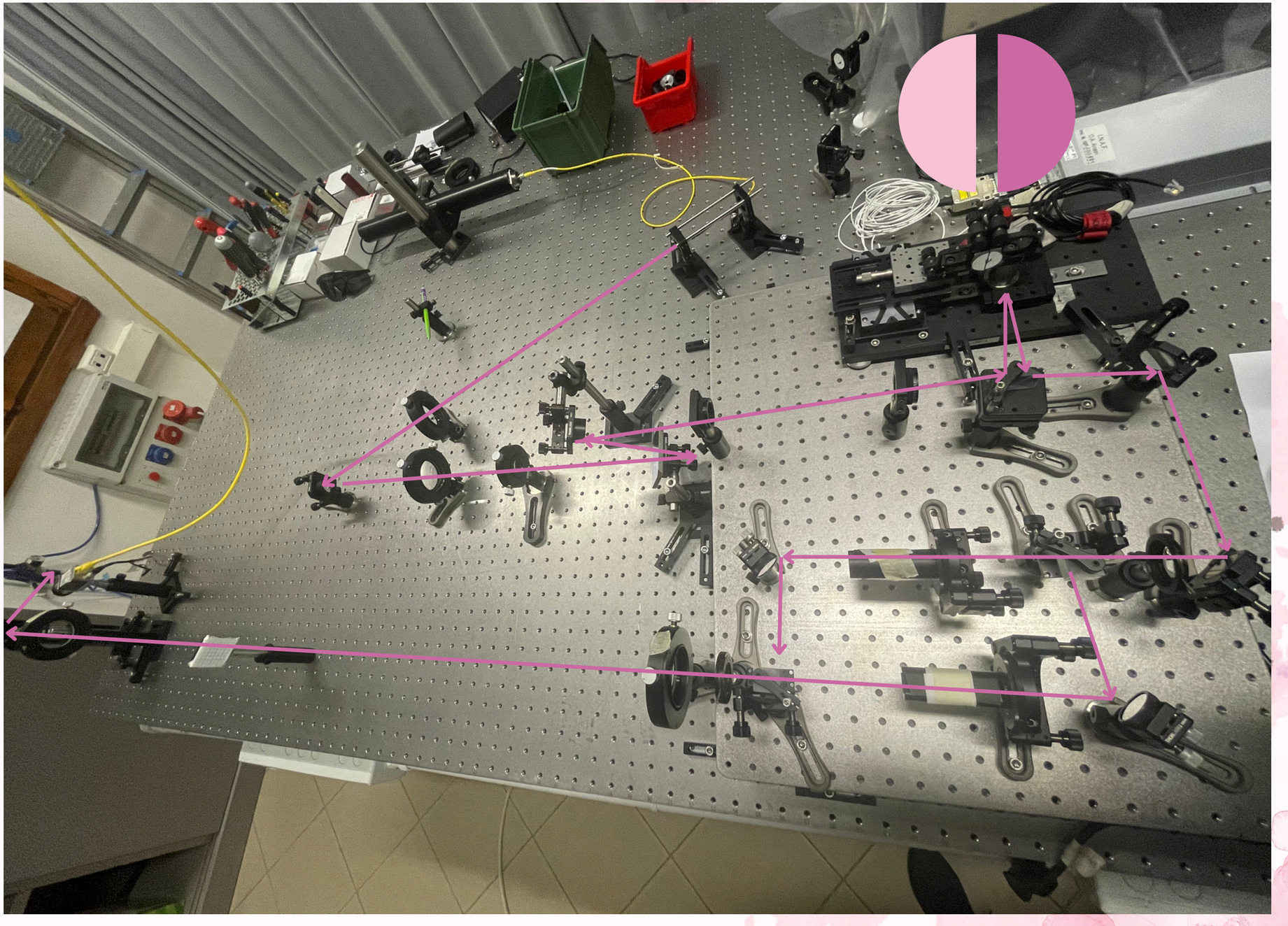
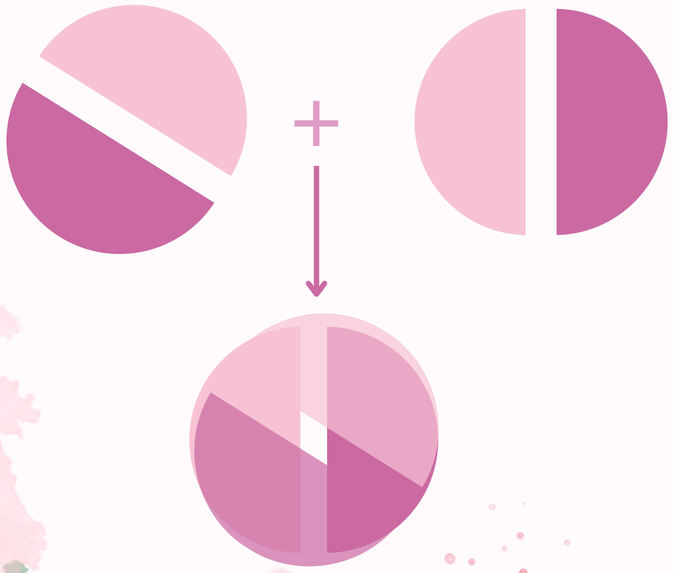
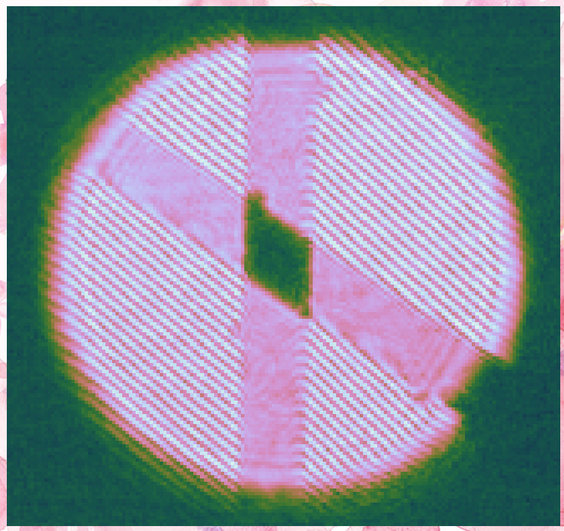
- Astronomical observations at the Galileo Telescope of the University of Padova for the observation of comets
- Astronomical observations at the Copernico Telescope of the University of Padova for the QSO campaign, an international reverberation mapping campaign of quasars
- Alternative service at the Museum of Astronomical Instruments of the University of Padova
- ALBA CUBESAT student project in the Ground station team where we set up the basis for building a ground station to communicate with cubesats

Maria Bazzicalupo

Current position within the PhD Program of National Interest in Technologies for fundamental research in Physics and Astrophysics:

- **Curriculum**: Detectors, lasers, and optics
- **Topic**: Technologies for the phasing of segmented pupil optical telescopes
- **University**: Università degli studi di Padova
- **Hosting research center**: INAF Osservatorio Astrofisico di Arcetri



My PhD focuses on adaptive optics, specifically on studying wavefront deformations in the Extremely Large Telescope (ELT). My project involves the design of the "CiaoCiao WFS," a rotational shearing interferometer proposed as part of the MORFEO project, which aims to sense discontinuities in the ELT's segmented pupil. This work includes the implementation of the system at the Arcetri Laboratory and the development of software for data analysis.

CiaoCiao WFS