

## **O INSTRUMENTO BRAZILIAN TUNABLE FILTER IMAGER**

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The BTFI is designed to be a highly versatile, new technology, optical tunable filter imager for the SOAR telescope which is to be used both for seeing-limited and adaptive optics enhanced observations. Such an instrument is dedicated to the acquisition of spatio-spectral data-cubes (with 2-spatial and 1-spectral dimensions) and opens up important new science capabilities for the Brazilian astronomical community from studies of nearby galaxies and the interstellar medium to statistical cosmological investigations. The BTFI project is a collaboration between the IAG, INPE, LNA, the University of Montreal and Marseille Observatory. The talk will outline the major science objectives and describe the instrument concept.