

## **AO assisted spectropolarimetry to study the formation of penumbra in sunspot**

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During their lifetimes, sunspots show several dynamic phenomena whose underlying physical processes still need to be clarified. For example, the formation process of the penumbra remains unclear because of the need for long time-series of high-resolution observations that are hardly acquired with present-day telescopes. We report the results derived from analysis of unique observations carried out with the Interferometric Bidimensional Spectrometer (IBIS) and high-order adaptive optics system, which pointed to a new scenario for the formation of the penumbra in sunspots.

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