

## WST, the Wide Field Spectroscopic Telescope

**F. J. Galindo-Guil<sup>1</sup>, V. Mainieri<sup>2</sup>, R. I. Anderson<sup>3</sup>, E. Tolstoy<sup>4</sup>, on behalf of the WST Science Team.**

<sup>1</sup> Centro de Estudios de Física del Cosmos de Aragón (CEFCA), Plaza San Juan 1, 44001 Teruel, Spain.

<sup>2</sup> European Southern Observatory, Karl-Schwarzschild-Strasse 2, 85748 Garching bei München, Germany

<sup>3</sup> Institute of Physics, Ecole Polytechnique Fédérale de Lausanne (EPFL), Observatoire de Sauverny, 1290 Versoix, Switzerland

<sup>4</sup> Kapteyn Astronomical Institute, University of Groningen, PO Box 800, 9700 AV Groningen, The Netherlands.

### Abstract

The Wide-field Spectroscopic Telescope (WST), a 12 m aperture telescope, is proposed as a new facility dedicated to spectroscopic surveys. The WST science white paper summarises the initial concept and the corresponding science cases. To resume, WST will feature simultaneous operation of a large field-of-view (3 square degrees): a high multiplex (20 000) multi-object spectrograph (MOS) and a giant 3x3 square arcmin integral field spectrograph (IFS). Regarding scientific capability, these requirements place WST far ahead of existing and planned facilities. This setup will enable WST to bridge a critical gap in astronomical capabilities, complementing ongoing deep imaging surveys and working synergistically with future ground—and space-based facilities. WST can address outstanding scientific questions in cosmology, galaxy formation and evolution, the origin of stars and planets, and time-domain and multi-messenger astrophysics. The WST Science Team, a global collaboration of over 500 scientists from around the world, welcomes the participation of the entire astronomical community, including the Spanish community. To join, please fill out the form using this URL.

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