



INSTITUTO DE ASTROFÍSICA DE CANARIAS

Dear Prof. Prada,

This letter is to express the interest of the Instituto de Astrofísica de Canarias in the MAAT project at GTC. The proposal matches our expertise and the research supported through this project will advance the goals of an outstanding international project that will provide the GTC with unique capabilities.

MAAT@GTC is devised as a Visitor IFS-mode that will allow the OSIRIS spectrograph at the 10.4 m GTC the capability to perform Integral-Field Spectroscopy over a seeing-limited field of view $14.20'' \times 10''$ with a slice width of $0.303''$, and will provide broad spectral coverage with low / moderate resolution ($R=600$ up to 4100) in the $360 - 1000$ nm spectral range. Its top-level requirements will broaden its use to the needs of a large group of researchers at the IAC (Jose Acosta, Jorge García Rojas, David Jones, Eduardo Martín, Evencio Mediavilla, Jorge Sánchez) for a wide range of activities mainly in the field of black holes and AGNs, the CGM and IGM of galaxies, nebulae, and brown dwarfs and planetary mass objects. These science projects are currently limited by the availability of optimal spectroscopic resources, especially on large aperture telescopes. MAAT at GTC would contribute significantly to the advance of these scientific programs. We will seek ways to provide synergy with current and upcoming surveys at different wavelengths, such as Euclid, J-PAS, and those operating at the ORM in La Palma, MAGIC, CTA, GOTO and WEAVE.

The scientific reach of MAAT@GTC is expected to be very substantial with a major impact on Astronomy and Cosmology. The Instituto de Astrofísica de Canarias would be pleased to collaborate with the Instituto de Astrofísica de Andalucía (CSIC) and its partners on this initiative. If a mutual agreement could be reached, the IAC would be eager to contribute to the project and seek funds for it.

Sincerely,

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Prof. Rafael Rebolo,
Director IAC