
The Ingot-WFS project: where we are (and are going)

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Abstract

The Ingot-WFS project described here is an R&D study aimed at the investigation of the feasibility of this innovative and ground-breaking wavefront sensor conceived to overcome some limitations due to the LGSs geometry that will face an ELT-like telescope.

Here we overview the project, dealing with different aspects of the program and reporting the operations we are setting out to explore how the sensor can be implemented on large telescopes to fully exploit their extraordinary sensitivity and resolution capabilities.

In particular, we focus on the description of the overall architecture and results of ongoing activities: the simulations aimed at investigating the performance of the sensor and the laboratory tests we made to study its response. Then we discuss the plan for the future, accounting for the test of the prototype on the Laser Laboratory and, finally, the verification on sky.

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