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PLICO: a framework for Adaptive Optics laboratory experiments

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PLICO (Python Laboratory Instrumentation COntrol) is a framework for developing instrument control applications, such as the devices usually available in a scientific laboratory. It is entirely

written in Python and based on a client-server model, typically using zeromq as message dispatcher.

The creation of the framework was a response to the need to use the instrumentation available in the Arcetri laboratories in a quickly and easily accessible format. The software architecture is designed to allow simple expansion of the server libraries with the introduction of new devices.
The available packages of the PLICO framework are:
1. plico-camera to control videocameras
2. plico-dm to control Deformable Mirrors
3. plico-dm-characterization for the deformable mirrors calibration and characterization
4. plico-motor to control motor
5. plico-interferometer to control interferometers

We present the status of the project and a few examples of application.

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