

## **Guest Investigator Program for PROBA2, SWAP and LYRA Instruments**

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PROBA2 is a technologically innovative ESA micro-satellite launched on November 2nd, 2009. The main scientific instruments on board are 1) SWAP, an EUV imager which will monitor space weather related events in the 1 million degree corona (see also talk in this session) and 2) LYRA, an EUV radiometer which measures the Sun's irradiance in 4 passbands, carefully chosen for their relevance to space weather and solar physics. Both the instrument commanding and the processing and distribution of the data will be done at the PROBA2 Science Centre, located at the Royal Observatory of Belgium.

Thanks to support from the European Space Agency, SWAP and LYRA will be run as instruments in support of the solar physics and space weather communities and scientists studying the solar terrestrial relationship. In this paper we will give an overview of the various possibilities through which external scientists can participate in the SWAP and LYRA projects. In brief, these possibilities are:

- Open data policy
- Participation in the SWAP and LYRA Science Consortium
- Joint observation campaigns with other instruments
- Support for synoptic space weather programs.

Last but not least, starting around February 2010, a Guest Investigator Program will be set-up based on a Call for Ideas to the scientific community for the use of PROBA2 data. Selected proposers will be invited to spend one or a few months with the PI teams to obtain expert knowledge on the instruments, to participate in the daily commanding of the SWAP telescope according to the needs of their data analysis proposal, and to finalize their research. Each guest investigator will get reimbursed for travel, accommodation and living expenses.

### **References**

- [1] <http://www.esa.int/proba>, ESA PROBA2 website.
- [2] <http://proba2.sidc.be/>, Royal Observatory of Belgium
- [3] <http://proba2.oma.be/swap/data/qlviewer/SWAPlatest.png>, SWAP latest image