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Using WaveCatcher for Quality Control

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The Technological Unit of the Institute of Cosmos Science of the Universitat of Barcelona (ICCUB) is specialized in developing microelectronics for applications in which low noise and high bandwidth are key features. We currently have different test setups equipped with both 8 and 16 channel WaveCatchers, including ASICs' tests for the Cherenkov Telescope Array (CTA) and the LHCb projects, as well as other tests for designs like the MUSIC and HRFlexToT, which are general use ASICs. The cost per channel and the flexibility that this solution provides cannot, to the best of our knowledge, be obtained with approaches based on more traditional laboratory instrumentation. In this contribution I will be presenting a selection of representative use cases. In particular, an automated Quality Assurance (QA) setup for PACTA (an ICCUB designed ASIC for the CTA project) and an onsite measurement and analysis testbench for a Beam Loss Monitor application at the ALBA synchrotron. For automated tests we build software using the wavecatcher library, and reserve the use of the wavecatcher software itself for the punctual tests. I will also be presenting how for automated tests we create our own software stack based on the static wavecatcher library, while for occasional use we directly use the software provided by wavecatcher.

Orateur: DE LA TORRE PEREZ, Oscar (University of Barcelona)

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