



Contribution ID: 28

Type: **Poster**

# RF systems testing solutions for scientific facilities

*Tuesday, 21 June 2016 13:10 (5 minutes)*

Radiofrequency systems of scientific installations are composed of several independent sub-systems, which should be tested both independent and jointly. These tests may become an issue since normally each system is manufactured by a different company, especially at joint international installations where contributions come from different countries.

This presentation will introduce the different solutions implemented by BTESA to solve some problems such as how to test an independent SSPA module extracted out of a SSPA amplifier (thus without the main SSPA control, circulator, loads and liquid cooling), how to condition a coupler without the main liquid cooling system of the facility, how to test a 200-entries cavity combiner with a single amplifier, how to test the stability of power supplies for superconducting magnets without the magnet load... Details about the test benches and installations with all the control system, probes, diagnosis and self-refrigeration systems will be described in this poster

## Summary

**Primary author:** Mr SIERRA, Francisco (BTESA)

**Co-authors:** Mr LLUCH, Juan (BTESA); Dr WEBER, Moises (CIEMAT)

**Presenter:** Mr SIERRA, Francisco (BTESA)

**Session Classification:** Poster session