



ID de Contribution: 191

Type: Poster

## Status and Perspectives of S3, SIRIUS and Low Energy Branch at SPIRAL2-GANIL

The Super Separator Spectrometer S3 is an experimental system developed for SPIRAL2. It has been designed for physics experiments with very low cross sections by taking full advantage of the very high intensity stable beams to be produced by LINAG, the superconducting linear accelerator at GANIL. These intensities will open new nuclear physics opportunities using fusion evaporation reactions, principally: super-heavy and very-heavy element properties, spectroscopy at and beyond the dripline, and isomer and ground state properties. S3 together with the experimental set-ups developed within the project (LEB & SIRIUS) will provide the best environment to performed spectroscopy studies in these regions. This report will present the S3 spectrometer together with the LEB and SIRIUS set-ups.

S3 has been funded by the French Research Ministry, National Research Agency (ANR), through the EQUIPEX (EQUIPMENT of EXcellence) reference ANR-10EQPX- 46, the FEDER (Fonds Européen de Développement Economique et Régional), the CPER (Contrat Plan Etat Région), and supported by the U.S. Department of Energy, Office of Nuclear Physics, under contract No. DE-AC02-06CH11357 and by the E.C.FP7-INFRASTRUCTURES 2007, SPIRAL2 Preparatory Phase, Grant agreement No.: 212692.

S3 LEB has been funded by the French Re-search Ministry through the ANR-13-B505- 0013, and the Flemish Research Fund (FWO) under the Big science program and a grant from the European Research Council (ERC-2011-AdG-291561-HELIOS).

### Choix de session parallèle

6.1 SPIRAL 2 : programme scientifique et premiers résultats

**Auteur principal:** Dr CACERES, Lucia (CEA-GANIL)

**Orateur:** Dr CACERES, Lucia (CEA-GANIL)

**Classification de Session:** Séance Poster