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The DESIR Facility under EPICS Control

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In a few years, at GANIL in Caen (France), light to super heavy exotic ion beams will be produced by the SPIRAL1 and SPIRAL2 facilities to be studied in the experimental hall DESIR: Fundamental researches on nuclear physics, weak interaction and astrophysics will be conducted.

The low energy Radioactive Ion Beams (RIB) with short half-lives will be transported, separated, cooled, bunched and trapped rapidly using instruments under EPICS control before performing high precision measurements on ions of interest using techniques like laser spectroscopy, mass spectrometry and decay spectroscopy.

The aim of this talk is to present the development of the DESIR beam lines, the HRS (High Resolution Separator), the GPIB (General Purpose Ion Buncher) and the double Penning trap PIPERADE conducted at the CENBG Laboratory in Bordeaux. Collaborative developments and the architecture of this EPICS Control system including industrial PLCs, embedded IOCs and real time distributed devices will be more specifically detailed.

GANIL: Grand Accélérateur National d'Ions Lourds (National Large Heavy Ions Accelerator)

RIB: Radioactive Ion Beam

DESIR: Decay, Excitation and Storage of Radioactive Ions

CENBG: Centre d'Etudes Nucléaires de Bordeaux Gradignan (a CNRS/IN2P3 & Bordeaux University Laboratory)

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