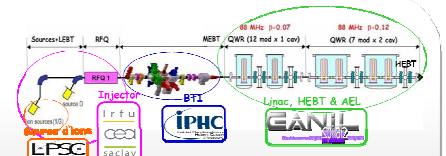


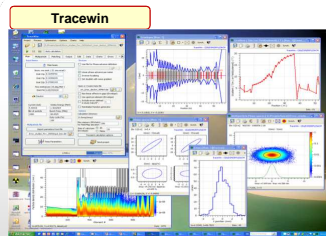
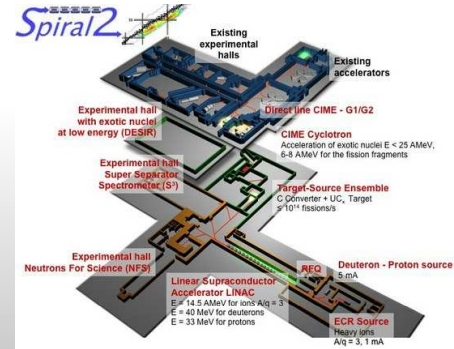
Status of the Spiral2 Command Control



D. Touchard*, P. Gillette, C. Haquin, E. Lemaître, L. Philippe, E. Lécorché# and the GANIL control group (Ganil / Caen, France)
 J.F. Denis, F. Gougnaud, J.F. Gournay†, Y. Lussignol, P. Mattei (CEA-IRFU / Saclay, France)
 P. Graehling, J. Hosselet, C. Maazouzi (CNRS-IPHC / Strasbourg, France)

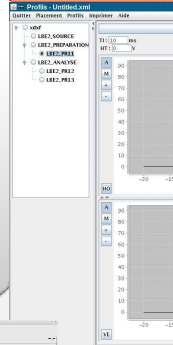
The SPIRAL2 project

The Spiral2 project consists of a new facility to provide high intensity RIB (Rare Ions Beams). Deuterons or Heavy Ions will be pre-accelerated in a RFQ (Radio Frequency Quadrupole) and then in a Linac (Superconducting Linear Accelerator). This primary beam will bombard target/source assemblies producing several rare ions which will be selected on the fly. They will be sent to the existing GANIL facility to be post-accelerated with the CIME cyclotron and transported to the experiment areas.

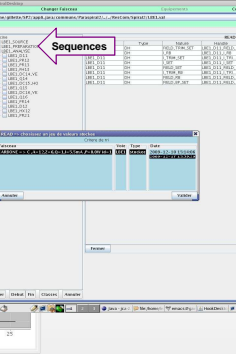


Beam simulation codes

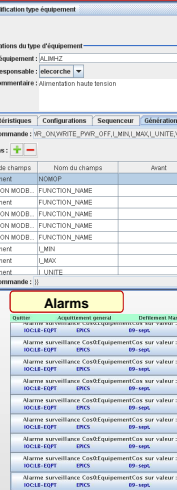
H and V beam profile



Machine configuration management



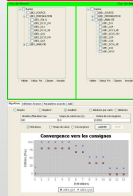
Equipment management



Archive viewer



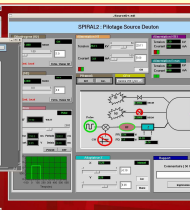
Beam optimization



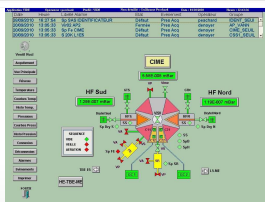
LPSC LBET1 screens



IRFU LBET2 screens



XAL based High Level Applications and EDM/CSS screens



Siemens S7 PLC



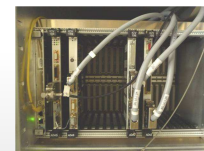
PLCs and supervision screens

Vaccum Interlock Brushless motors

EPICS Channel Access Protocol



PC linux/IOCs



VME / VxWorks/IOCs



ADAS
ICV150
ICV196
ICV714
ICV108/178

Modbus-TCP / Ethernet

Modbus-RTU / RS485

Direct I/Os

EPICS Front ends

Time of Flight Power supplies RF Stepping Beam Faraday DC and AC
 amplifiers motors Profilers cups Current
 Transformer

SPIRAL2 facility

Phase 1