

Deuteron - Proton source

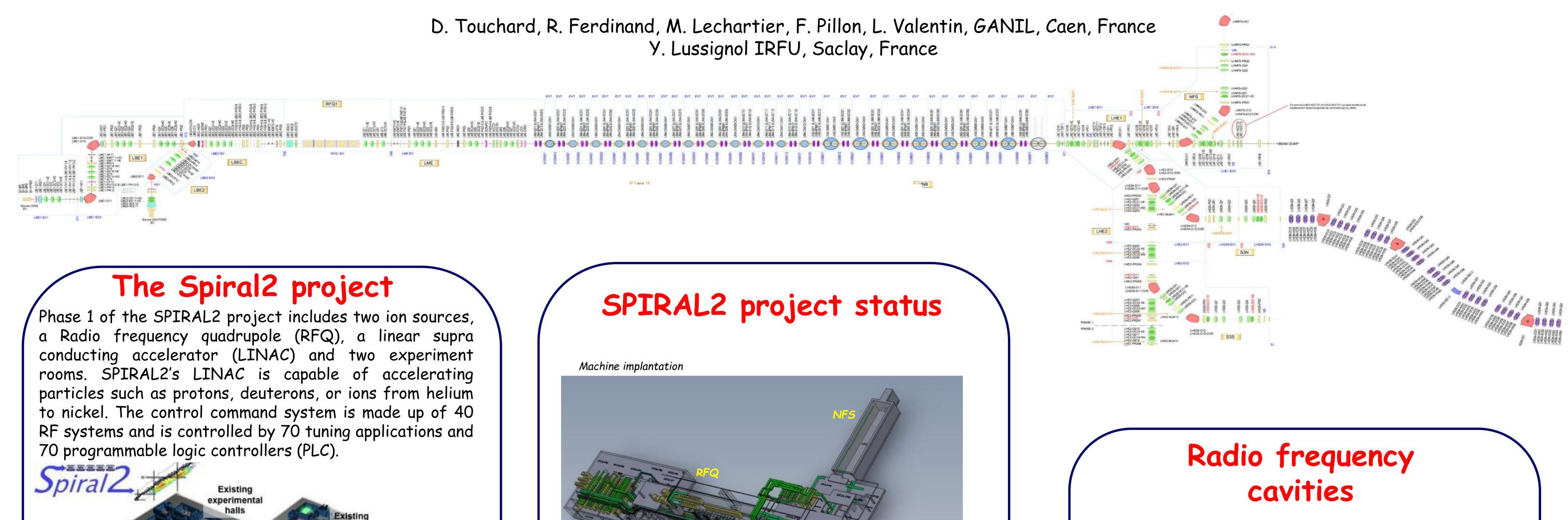
The thresholds parameters and useful cycles to be processed can be set at any time. The degradation of the

procedure.

vacuum or a current induced on the coupler beyond the set thresholds induce both a power rise freeze, waiting for

a nominal situation. If these degradation exceed the material tolerance limits, the LLRF safety device stops the

A state machine solution to control superconducting cavities



In July 2019, the French Nuclear Safety Authority authorized to start the LINAC and beam commissioning.

The driver accelerator facility composed by sources, followed by a Radio Frequency Quadrupole (RFQ), 3 bunchers, and a superconducting linear accelerator (LINAC) will be able to accelerate also proton, deuteron or heavy ion beams. The LINAC will be composed of 26 quarter wave superconducting resonators closed into 19 cryo modules. All cavities will be driven by independently power amplifiers at 88.0525 MHz.

