

# DITANET

Diagnostic Techniques for particle Accelerators - a European Network

★ University of Liverpool, UK

★ CEA, Saclay, France

★ CERN, Geneva, Switzerland

★ DESY, Hamburg, Germany

★ GSI, Darmstadt, Germany

★ HIT GmbH, Heidelberg, Germany

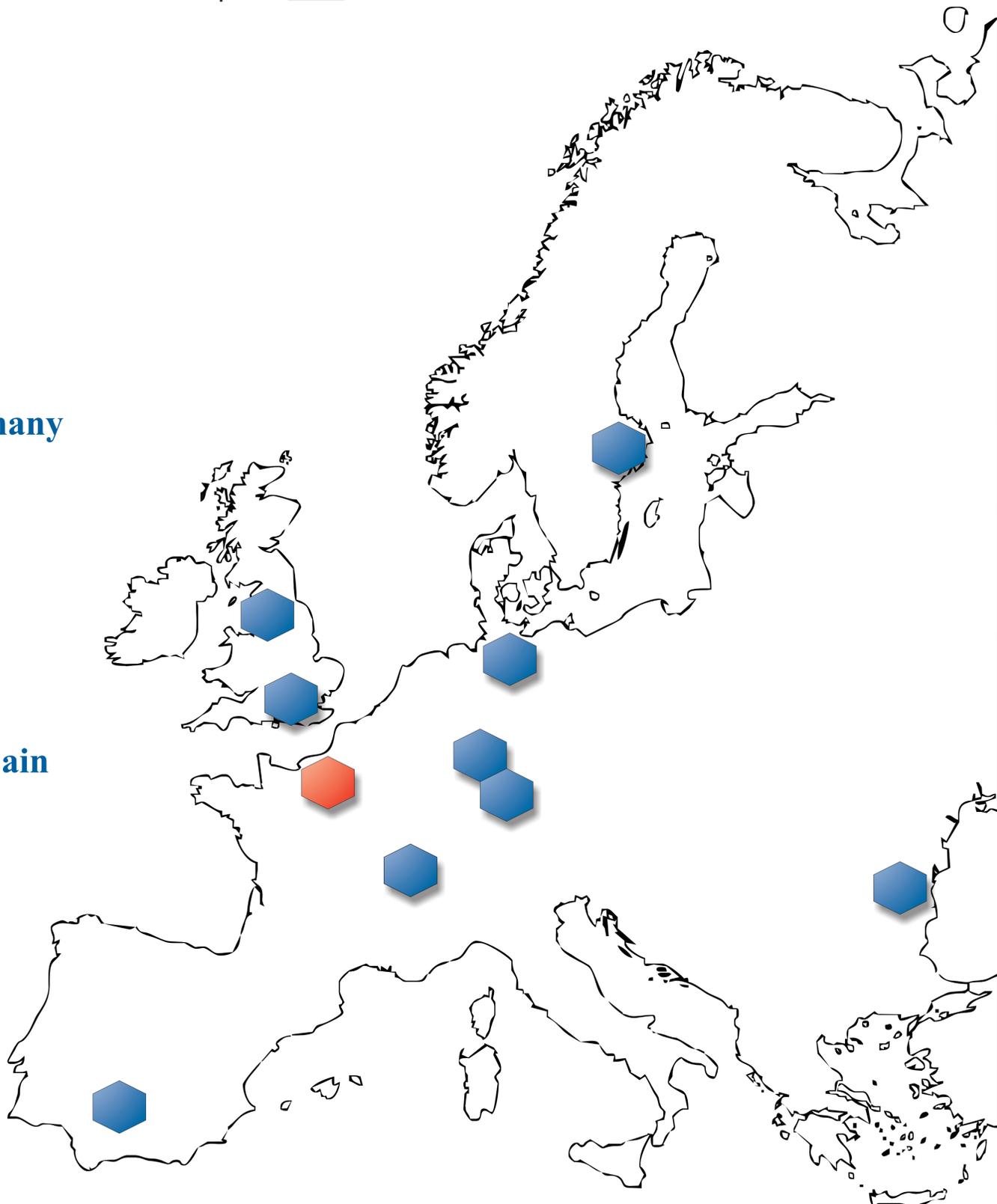
★ IFIN-HH, Magurele, Romania

★ Royal Holloway

University of London, UK

★ Stockholm University, Sweden

★ CNA / University of Seville, Spain



## DITANET Topical Workshop on High Intensity Proton Beam Diagnostics

A DITANET topical workshop on “High Intensity Proton Beam Diagnostics” will be organized by CEA Saclay, on September 26th and 27th of 2011. The workshop will take place in Kyriad Hotel of Massy-Palaiseau, located at 82 place de France, 12 kilometers south of Paris.

Most of the high intensity proton beam facilities over the world are in different project phases: operation (SNS...), commissioning (Linac4...), design (Spiral2, FAIR, IFMIF-EVEDA, ESS...) and prospective (MYRRHA...). They cover a large range of physics from fundamental nuclear physics to fusion and nuclear waste transmutation. Their diagnostic needs are specific but they all have to cope with high beam power imposing peculiar care for non-interceptive ones.

Several challenges have to be faced in such facilities due to:

- high power: Machine Protection System, emittance measurement...
- space charge: transverse profile, emittance measurement...
- low  $\beta$  beam: Beam Position Monitor, bunch length monitor, beam current transformers...
- background: radiation hardness materials, electronics...

Dead line for registration is **06.09.2011**.

More information about the workshop and application details can be found at: <http://www.liv.ac.uk/ditanet>

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### Partners

