



WELCOM E
to the

9th DITANET Topical Workshop

Non-Invasive Beam Size Measurement for High
Brightness Proton and Heavy Ion Accelerators

CERN, Geneva, Switzerland

April 15-17th 2013





Workshop Aims

- **Introduction**

- Understanding emittance blow-up is crucial to maximise luminosity production in the LHC
- The high brightness of LHC beams in both the LHC and its injectors are creating problems for the standard suite of emittance measurement systems

- **Main Aim**

- To prepare non-invasive transverse beam size monitors in the LHC and its injector chain to fulfil the future emittance measurement requirements for LHC beams

- **Focus on**

- Improvements to existing systems for implementation during the long shutdown in 2013-2014
- Concepts that could be foreseen for installation during the second long shutdown in 2018



Timetable

- **Session 1 – Monday morning**
 - Experience with Rest Gas Ionisation Monitors
 - Chairman : Jean-Jacques Gras
- **Session 2 – Monday Afternoon**
 - Development and Simulation of Rest Gas Ionisation and Luminescence Profile Monitors
 - Chairman : Bernd Dehning
- **Session 3 – Tuesday Morning**
 - Synchrotron Light Diagnostics
 - Chairman : Enrico Bravin
- **Session 4 – Tuesday Afternoon**
 - Future Applications & Novel Techniques
 - Chairman : Rhodri Jones
- **Wednesday Morning**
 - Session summaries & discussion
- **Wednesday Afternoon**
 - Small discussion groups between experts

Administrative Matters

- **Lunch**

- Restaurant 2

- a 5 minute walk down the hill
- Invited speakers please contact me for your pre-paid tickets

- **Dinner**

- Tuesday evening at 20:00 at the Jiva Hill Resort
- If you need transport please let me know & we'll arrange cars to pick you up at 19:30 outside the main building (500)



- **Any Questions**

- Please contact Madeleine Catin, myself or any of the chairmen