



# **RADWG 7<sup>TH</sup> - 2012**

**5<sup>TH</sup> DECEMBER 2012**

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# AGENDA

- ❖ Matters arising and Evian workshop
- ❖ LHC radiation levels
- ❖ CNRAD radiation levels
- ❖ Status of the 867 rad workshop
- ❖ RADECS conference summary

# PSI test plan - 2012

## ❖ October 2012

- ❖ Amplifiers: INA111, LM7372, MAX4238
- ❖ Voltage reference: ADR434

## ❖ December 2012

- ❖ Test of Electronic components postponed to December
- ❖ Test of the BLM detector for the week 50 or 51

# PSI test plan-2013

- ❖ Requests for 2013
  - ❖ BPM (2 slots)
  - ❖ QPS (1 or 2 slots)
  - ❖ NanoFip (2 slots)
- ❖ Indications on the date useful to make a plan

# CEA – 1 MeV facility

- ❖ Beam slots in October 2012 and November
  - ❖ RadMonV6 test
  - ❖ Calibration
  - ❖ Diodes for TE/EPC
- ❖ Plan 2013
  - ❖ PROSPERO
    - ❖ 29-30 April and/or 2-3 May for active tests
    - ❖ Passive tests (send components 4 weeks before)
  - ❖ Possibility to have 2.5MeV, 14 MeV, and thermal neutrons. Facility properties to check

# CERN facilities

- ❖ A lot of tests at CNRAD and H4IRRAD
- ❖ Dedicated RadWG next year to make a summary of the tests and understand the implications

# SEE failures for Evian

- ❖ Brief recap of the LHC operational parameters.
- ❖ Statistics, per equipment group, and area
  - ❖ List per equipment
- ❖ Down time for the machine
- ❖ Comparison with 2011 and with our expectations
- ❖ Proton-Ions run
- ❖ Modifications for LS1 and expectations for 2015

# SEE failures for Evian

- ❖ Usual update on the type of failures
  - ❖ Location
  - ❖ Failure types
  - ❖ Impact on the machine
  - ❖ Mitigations for LS1



# List of Failures- Example

QPS			
Dump	Dump TBC	No Dump	No Dump/ TBC
26	2	19	0

- ❖ **Location:** UJ14/16, UJ56, RRs P1/P7, DS
- ❖ **Failure type:** Digital DAQ systems for nQPS and 600A protection, uFIP comm
- ❖ **Mitigations and impact for LS1:**
  - ❖ New DAQ system under design (FPGA)
  - ❖ BricoFip (mid-term)/NanoFip (long-term)



# SEE failures for Evian

- ❖ Send the talk and collect your feedbacks



# Back-up



# Technical stop



# Fraunhofer institute - Germany