

Infrastructure for advanced calorimeters

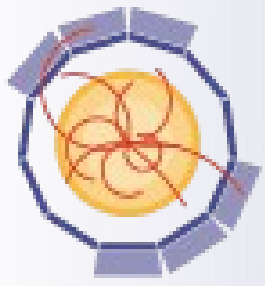
AIDA2020 Annual Meeting WP14 Introduction

F. Simon, R. Pöschl

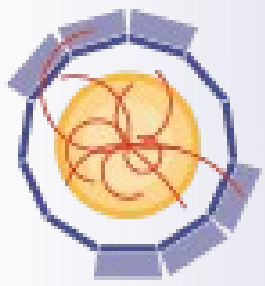
AIDA-2020 WP14, Annual Meeting Apr. 3, 2019



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- Illumination system, data base on irradiated materials (14.2.1)
 - LHCb?
- Improvement of test stands studies of scintillators (e.g. 14.2.2)
- Analysis of recorded data with G4 and the tools developed in WP3 (All)
- Further proving of functionality of compact r/o hardware in e.g. Beam tests (14.4)
 - Knowledge transfer e.g. from SiW ECAL SL-Board to other similar cards
 - Integration of new compact r/o hardware (Task 14.4) with cooling devices (Task 14.5.2)
- Database of used ASICs
- FLAME + LumiCal Setup, beam test (14.3.2)
- Assembly tools for producing real size prototype layers of silicon based calos (14.2.2., 14.3.1)
 - LC but also CMS HGCALE
- Insertion of detector modules into welded structure, extension to even bigger structures (14.5.1)
 - e.g. Cooperation with TWI/UK
- Application of TLU (WP5) and at least preparation of further combined beam tests
 - calo <-> calo but also calo <-> tracker, LumiCal
- Leak detection (Ecal), 'real' leakless and thermal tests (AHCAL) (Task 14.5.2)
- **Curation of Infrastructures (All)**
 - **How will they be maintained (Knowledge of operation, spare parts etc., role of agencies behind projects?)**



F. Sefkow, SG Meeting 7/3/19, slide not declared as confidential

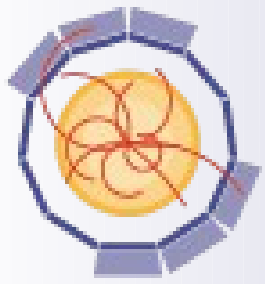
- INFRA-INNOV-04-2020: Innovation pilots
 - Innovation in light source technologies
 - **Innovation in detector technologies**
 - Innovation in accelerator technologies
- Budget 30M, max **10M** per proposal

Detector technologies
at accelerators →

← Target is Advanced Communities who have a potential
To cooperate with industry

- **Deadline March 17, 2020**
- **Open community meeting early September:**
 - Possibly second end Oct, early Nov.
- Eols before summer: sub-community discussions,...
- **Call for Eols in May, deadline end of June**
- Alignment with European Strategy Process will be challenging anyhow

News: CERN will be leading institute, Felix invited to lead the proposal



AIDA²⁰²⁰

Successor of AIDA2020 – Main Lines (incomplete)

- Need industrial partners as beneficiaries not just as suppliers, start to think about it now!
- No Transnational access!!!
- Need to define a roadmap into what these developments should yield, what are realistic targets in terms of HEP projects?