



**AIDA** 2020

Advanced European Infrastructures  
for Detectors at Accelerators

# WP9 (NA8) Parallel Meeting INTRODUCTION

April 2<sup>nd</sup> 2019

4<sup>th</sup> AIDA-2020 Annual Meeting  
Oxford, Apr 2<sup>nd</sup> – 5<sup>th</sup> 2019

Paolo Petagna



*This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654168.*



**14:30 - 14:45 P.Petagna *Introduction and status of the final deliverables***

**14:45 - 15:00 F. Bosi *Plans for testing microchannel cooling for the new MCM-boards of TPC electronics in Pisa***

**15:00 - 15:15 P.Petagna *New measurements on CO2 boiling in mini- and micro- channels at CERN***

**15:15 - 15:30 Guillem Vidal et al. *Status of the activities in Valencia***

**15:30 - 15:45 A.Mapelli *Microfabrication activities at CERN***

**15:45 - 16:00 Coffee Break**

**16:00 - 16:15 Riccardo Callegari *Embedding microfluidics into microelectronics***

**16:15 - 16:30 T.Frei *Silicon-based micro oscillating heat pipes for HEP and space applications***

**16:30 - 16:45 M.Angeletti *Silicon microchannel cooling frames for stave configurations***

**16:45 - 17:00 G.Viehhauser *Status of the T9.3 activities in Oxford***

**VISIT TO THE NEW OXFORD LAB (special guide: Georg Viehhauser)**



**TWO REPORTS are due from T9.2 LATEST by the end of April:**

- **D9.3 = Technology recommendations for  $\mu$ -channel cooling (“Report detailing the state-of-the-art technologies selected for the production process of  $\mu$ -channel cooling devices to be installed in future HEP experiments”)**
- **D9.4 = Qualification and characterisation of  $\mu$ -channel cooling (“Report detailing the standardized procedures endorsed to qualify and characterise  $\mu$ -channel cooling devices to be installed in future HEP experiments”)**

**The idea is to prepare them in a way that they can form the skeleton for either one or two NIM-A papers (it will depend on the size: in case of two papers, with the same list of authors, it could be something like “Microchannel cooling for future silicon detectors. Part I: technology recommendations; and Part II: Qualification and characterization”)**

**AN INDEX HAS BEEN DRAFTED FOR PROPOSAL: WE NEED ASAP TO FINALIZE IT AND START  
COLLECTING THE CONTRIBUTIONS**



### INFORMATION FROM FELIX

- 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
  
- **Deadline March 17, 2020**
- **Open community meeting early September:** propose Sept 5-6
  - 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
- CERN likely candidate to lead, ensure support and nominate proposal coordinator

**We need to collect ideas on the issues on which we want to focus the future activities**