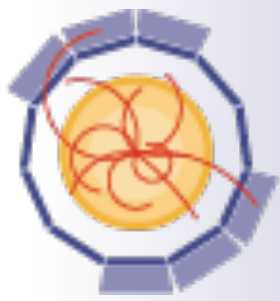


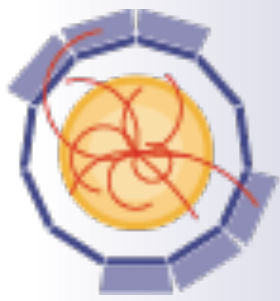
### Expressions of Interest

- **Dual readout calorimeter**
  - **Detector design and construction**
    - Choice of materials (absorber and fibres)
    - Production of the elements
    - Assembly, Quality control
  - **Light sensors and Readout**
    - SiPM, ASIC, FPGA, signal processing and feature extraction
- **Wire Chamber**
  - **Cluster Counting/Timing**
    - Data reduction and pre-processing of drift chamber signals sampled at high rates
  - **A prototype of an ultra-light drift chamber** with new materials for the next generation of lepton colliders



### Expressions of Interest

- **Preshower and Muon detector**
  - **Innovative ML-based algorithms for tracking in MPGDs**
    - Improve particle tracking (for any incident angle) in modern MPGDs ( $\mu$ RWELL, GEM, MicroMegas, etc.)
  - **Optimisation of the Industrial engineering of  $\mu$ RWELL detectors with bi-dimensional readout**
  - **Development and characterisation of integrated electronics for the readout of pixellated  $\mu$ RWELL detectors**
- **Vertex detector**
  - **Sensor development, both ARCADIA-based solution and HV-CMOS**
  - **Optimisation of detector mechanics and cooling**
- **Software**
  - **?**



# AIDA<sup>2020</sup>

## IDEA Collaboration meeting

### IDEA

- **New detector concept for an experiment at a Circular  $e^+e^-$  Collider**
  - Proposed by several INFN groups
  - Accepted by both **FCC-ee** and **CEPC**
  - Described in both **CDRs**
- **Collaboration meeting** in Bologna
  - **June 13th and 14th**: <https://agenda.infn.it/event/19360/>
  - **Main items**
    - Review of the **status** of the various **sub detectors** and **software**
    - **Preparation of Eols** for **AIDA-2020++**
      - Collaboration with **foreign institutes** (**China, Russia, Croatia, Switzerland, USA, UK**)
      - Collaboration with **industries**, **CAEN** will participate (**Eltos** also interested)
- Will be preceded, on **June 12th and 13th**, by a special **Software Workshop**
  - **Aim** is to reach a **common software framework**
  - **Participation** from **CERN, ILC, CLIC, FCC, CEPC** and **HSF** communities