



AIDA2020 Annual Meeting

Workshop on energy and time
measurement with silicon devices
13/6/16 – 14/6/16 DESY/Hamburg

Welcome and charge to the workshop
M. Mannelli, A. Seiden, R. Pöschl



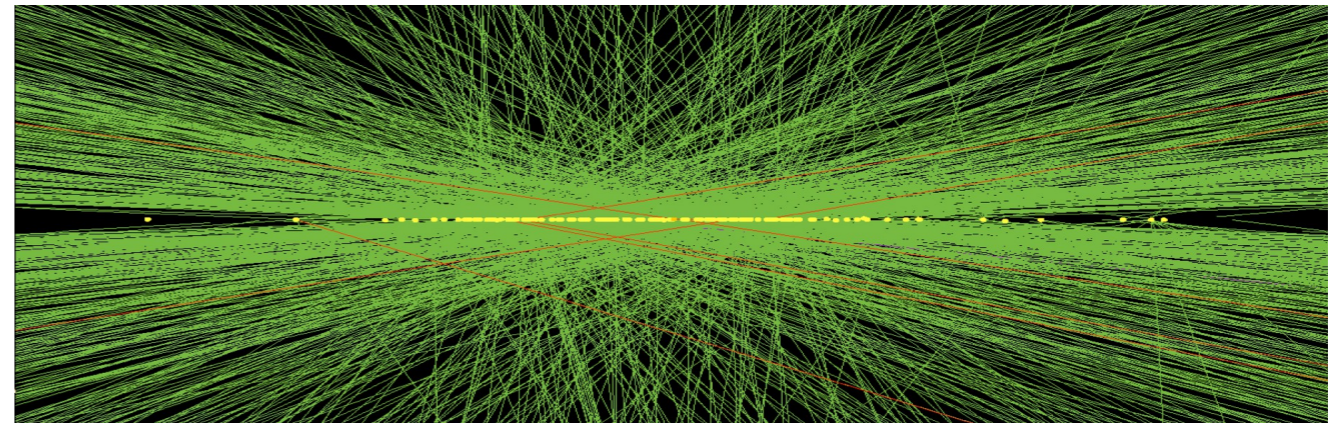
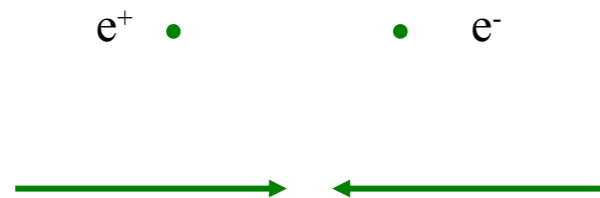
This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under Grant Agreement no. 654168.

- 2 days workshop on calorimetry with silicon
- ~80 registered participants from different communities
 - LHC and Linear Collider
 - Classical” calorimeter people and experts on Si Tracking
- Manifestation of boosted interest in high granular devices at the “calorimetric” end of a detector
- Detector R&D so far carried mainly by LC community (CALICE, FCAL)
- Federation/communication strongly needed due to envisaged step from Prototypes to full detection systems
- Thanks to the AIDA2020 management for providing this forum
- Thanks to speakers and participants to turn this workshop into a success



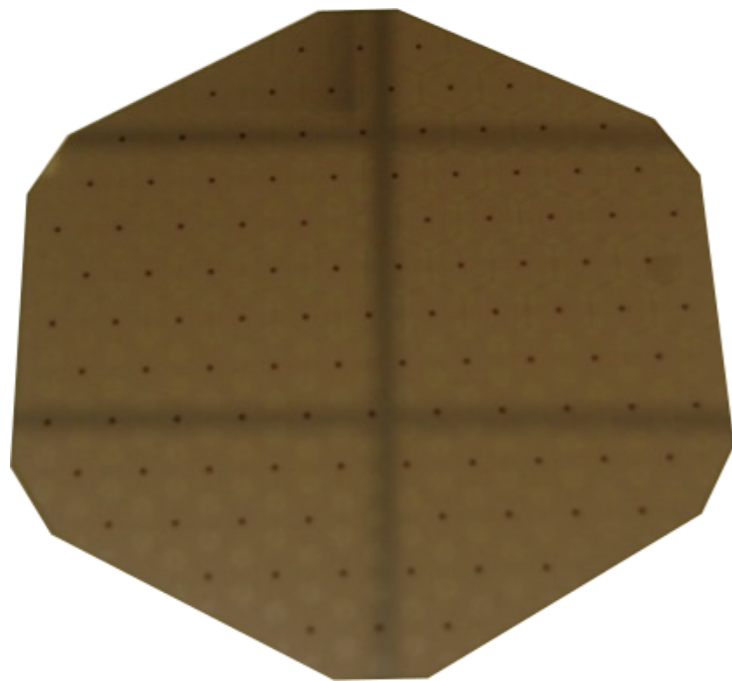
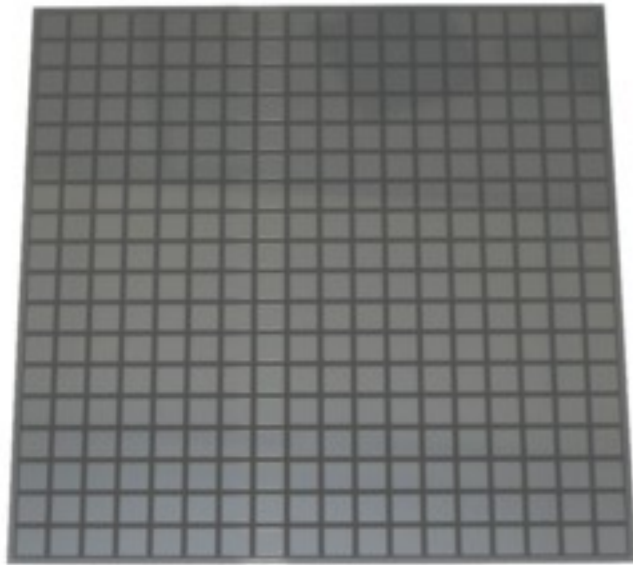
Quest for high granularity -> Step beyond classical calorimetry
(sometimes criticised!!!)

Why change of paradigm?



Preserve precision of initial state in e^+e^- collisions

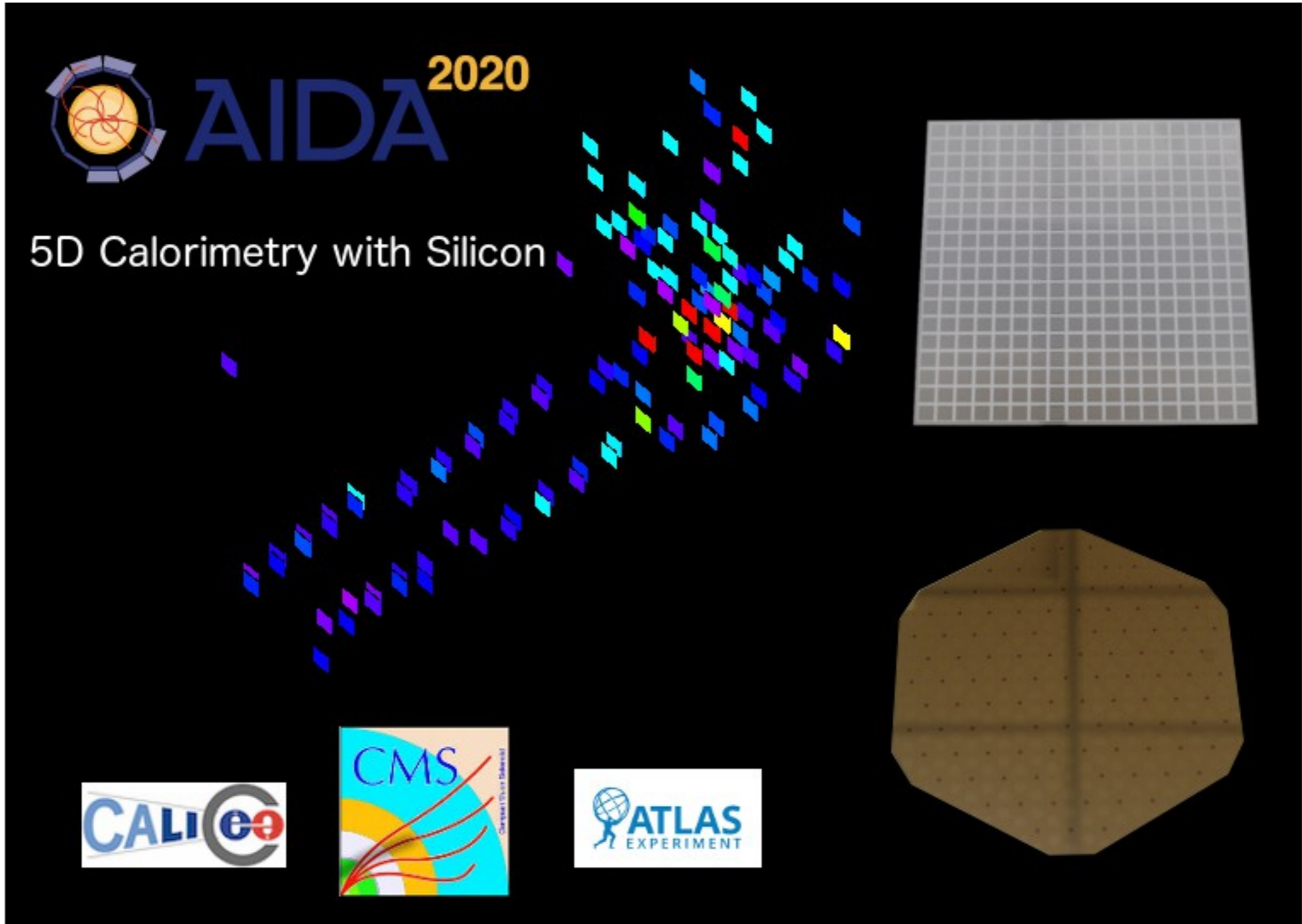
Provide as much information as possible to disentangle collisions at high luminosity Hadron colliders



Silicon as active material

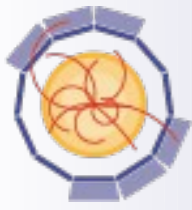
- Support compact design of detectors
- Allows for pixelisation
- Robust technology
- Excellent signal/noise ratio

AIDA²⁰²⁰ The workshop at a glance I



AIDA²⁰²⁰
5D Calorimetry with Silicon

The slide features a central graphic of a 3D grid of colored rectangular blocks (purple, blue, cyan, green, yellow, red) arranged in a perspective view. To the right, there is a 2D grid of grey squares and a brown octagonal shape with a grid of small dots. At the bottom, there are three logos: CALICE, CMS, and ATLAS EXPERIMENT.



AIDA²⁰²⁰

The workshop at a glance II

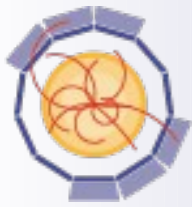
AIDA²⁰²⁰

5D Calorimetry with Silicon

CALICE

CMS

ATLAS EXPERIMENT



- Cross community forum for future detectors (in particular calorimeters)
- Get an overview of the state-of-the-art
- ... but in particular we want to learn about open issues in quest for **common solutions** where possible
- Give a broad room for discussion (we have some safety margin in the agenda)
- Mutual get to know each other among actors in the field

- Si Workshop reception
Today at 19.30h in the extension of the DESY Canteen

- Mini-exhibition of R&D devices from CALICE and CMS
Tomorrow in morning coffee break
Touching allowed ;-)