

# Silicon Tracker Detectors: From Concept to Engineering Reality

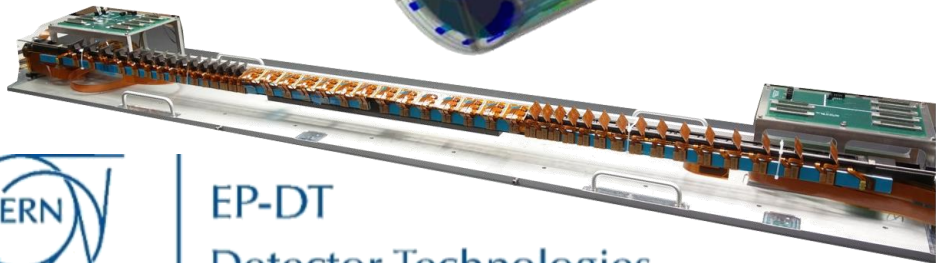
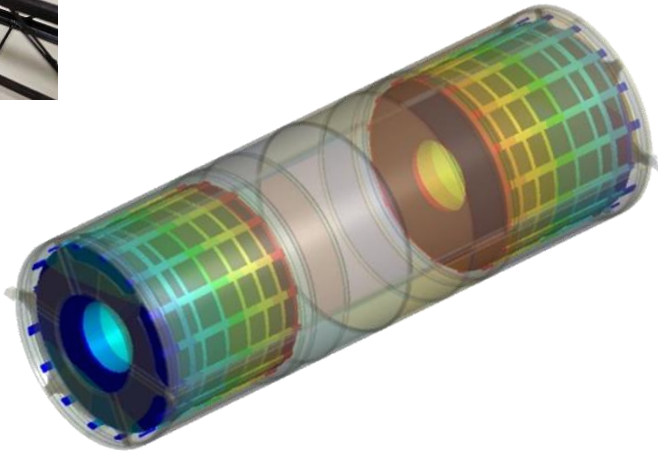
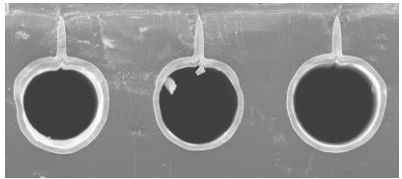
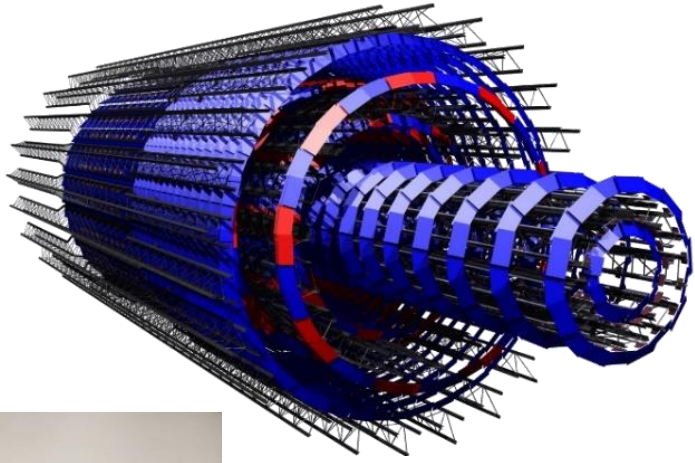
Spanish High-School Students Internship Programme 2019

CERN, 30<sup>th</sup> September – 12<sup>th</sup> October 2019



EP-DT  
Detector Technologies

# What will you learn?



Detector Layout

Conceptual Design

Pixel Modules

CAD Design

Numerical Analysis

Composite Structures

Micro-fabrication

On-Detector Cooling

Material Qualification

Thermo-mechanical Testing

Precision Mechanics

Detector Integration

System Testing



EP-DT  
Detector Technologies

# Where?

- During the next two weeks, you will be part of the Detector Technologies Group (EP-DT)
- You will be based at the EP-DT Engineering Office: **Building 25/R-028**



# With whom?

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# Questions?