

# **First Barcelona Techno Week: Course on semiconductor radiation detectors**

**Monday, 11 July 2016 - Friday, 15 July 2016**

**Other Institutes**

## **Scientific Programme**

Program overview

Part 0: Introductory concepts

1. Interaction of radiation with matter

2. CMOS technology

Part 1: X-ray and charged particle detectors

3. Semiconductor radiation detectors

4. Pulse processing electronics

5. Hybrid pixel detectors

6. Overview of Monolithic Active Pixel Sensors

7. Applications

Part 2: Solid state photodetectors

8. Light detection in semiconductors

9. Front End and Readout electronics

10. CMOS and SPAD cameras

11. Applications of light detectors

Special sessions

- Poster session

- Industrial presentations and exhibitions