

SEMINARIO NAZIONALE RIVELATORI INNOVATIVI 2023



Monday, 9 October 2023 - Friday, 13 October 2023

Istituto Nazionale di Fisica Nucleare

Scientific Programme

The SNRI-VII course is structured in morning and afternoon sessions.

Morning sessions will be mainly devoted to seminars given by worldwide recognized detector experts (10 + 2 hours). They will be held in Torino, Sala convegni and Spazio Polifunzionale in Strada delle Cacce 91, INRIM.

- "Status and perspectives of the detectors for dark matter searches" **Elisabetta Baracchini** (2h)
- "The present and next generation of gravitational wave detectors" **Michele Punturo** (2h)
- "Neutron detectors, status and applications" **Paolo Finocchiaro** (2h)
- "Quantistic sensors for the exploration of the principal of quantum mechanics" **Marco Genovese** (2h)
- "Understanding performance of analog-to-digital converters for radiation detector systems" **Gianni Mazza** (1h)
- "SiPM for single photon detection" **Pietro Antonioli** (1h)
- "Inrim Laboratories Tour"

The visit to the "Atomic Clocks" and "Quantum Technologies" laboratories replaces 2 hours of face-to-face seminars.

Afternoon sessions will be devoted to practical tutorials (17 hours). "Hands-on" laboratory exercises will allow participants to test detectors and techniques.

- "Cryogenic sensors electronics" **Manuel da Rocha Rolo**
- "X-ray polarimetry detectors" **Luca Latronico**
- "Advanced sensors and electronics characterisation" **Nicolò Cartiglia, Lino Demaria**
- "Gamma detection for PET and timing applications" **Piergiorgio Cerello**
- "Monolithic CMOS sensors" **Stefania Beolè, Manuel da Rocha Rolo**
- "Quality control of light-weight tracking detectors" **Silvia Coli**

