

ISU HEPP Lecture Series on Gaseous Detectors

Thursday 15 Oct 2026, 14:00 → 16:30 Europe/Istanbul

Vadi H Campus / Room 108 (Istinye University)

Giulio Aielli (INFN e Universita Roma Tor Vergata (IT)) , Serkant Cetin (Istinye University (TR))

Description Speaker: Professor Giulio Aielli

Professor Giulio Aielli is a faculty at the Physics Department of University of Rome Tor Vergata and also adjunct professor at Istinye University. He is a member of the ATLAS Experiment at CERN. His research focuses on developing detectors capable of identifying particles produced in ultra-high-energy collisions, with a particular emphasis on RPC detectors. He has coordinated major projects to upgrade the ATLAS Experiment and is investigating new technologies -offering greater precision, speed, and sustainability- for future particle physics experiments. His work combines fundamental research, technological innovation, and the training of young researchers.

The event is face to face and in English.

There is no registration fee; however, registration is required due to limited seat capacity.

Registration deadline is 11 Oct., 2026, 23:59

Address: Istinye University, Vadi-H Campus, Vadistanbul, Ayazağa, Sarıyer/İstanbul

Map URL: <https://maps.app.goo.gl/hNRjJkiD9hYePyYL6>

This event is organized by the [High Energy Particle Physics \(HEPP\) Research Group](#) within the [Department of Basic Sciences](#) of Istinye University.

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Registration 🎫 Registration for ISU HEPP Lecture Series

14:00 → 14:10 **Welcome & intro** ⌚ 10m

Speaker: Serkant Cetin (Istinye University (TR))

14:10 → 15:10 **Lect.1: Introduction to Gaseous Detectors** ⌚ 1h

We will introduce the history, the basic working principles, the physics, and the types of gaseous detectors, with a comparative analysis on their performance and applications.

Speaker: Giulio Aielli (INFN e Universita Roma Tor Vergata (IT))

15:10 → 15:30 **Break** ⌚ 20m

15:30 → 16:30 **Lect.2: Introduction to the Resistive Plate Chamber and Related Detectors** ⌚ 1h

The Resistive Plate Chamber is a very successful detector technology, spread in any type of particle physics experiment. We will deepen the physics principles of RPCs, addressing the features and the limits, and we will see their past, present and future applications. At the end two new technologies, stemming from the RPC concept, promising for a major breakthrough in achieving a new order of magnitude of performance.

Speaker: Giulio Aielli (INFN e Universita Roma Tor Vergata (IT))

<https://indico.global/event/19212/>

Registration deadline 11.10.2026

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