

TRDs for the 3rd millennium

5th workshop on advanced Transition Radiation Detectors for accelerator and space applications

Bulletin n. 1

This is the first announcement of the 2020 Workshop on advanced Transition Radiation Detectors, that will be held in the Grand Hotel Rosa Marina in Ostuni, from September 14th to 18th 2020.

The workshop is hosted by the Istituto Nazionale di Fisica Nucleare (INFN) and by the Physics Department of the Bari University and Politecnico.

1. Program

This is the fifth edition of a series of workshops dedicated to Transition Radiation Detectors (TRDs), which was initiated in 2001. Since their early developments in the 1960s, TRDs have been widely employed for particle identification in many high-energy physics experiments.

Aim of the workshop is to discuss the applications of TRDs in the current and future accelerator and cosmic-ray experiments, as well as to give an overview of the modern trends of the advanced particle detector developments.

The sessions of the workshop will cover the following topics:

- Developments of the particle identification techniques;
- Experience and results obtained with TRDs in the running accelerator and cosmic-ray experiments;
- Recent developments of the TRDs;
- Advancements in the theory of transition radiation;
- Tools for the simulations of TRDs;
- Advancements in the X-ray detection techniques and electronics;
- Proposals of new experiments where TRDs will play a relevant role.

The workshop will start in the afternoon of Monday, September 14th, 2020 with a welcome cocktail. The first session will be scheduled on Tuesday, September 15th, 2020 at 9:00. The last session will finish on Friday, September 18th, 2020 at 13:00.

2. Workshop format

Two daily plenary sessions are scheduled, from 9:00 to 13:00 and from 14:30 to 18:30.

3. Attendance and registration

Participants are requested to fill the online Registration Form at the URL: <https://agenda.infn.it/event/21266/>

Accommodation will be managed by the hotel and should be booked at the dedicated URL, which will be available as soon as Italy will be opened again for big events after the COVID-19 epidemic.

Accommodation will include breakfasts, lunches and dinners. The accommodation rates are reported in the following table.

A city tax of 2 EUR/day per person will be also applied.

Accommodation type	Cost
Double room (not sharing)	165 EUR/day + taxes
Double room (sharing)	140 EUR/day + taxes
Children	20 EUR/day + taxes

4. Abstracts

Participants who wish to contribute to the workshop are invited to submit their abstract before June 30, 2020, by filling in the proper section in the workshop web pages.

The workshop secretariat will notify before July 15, 2020 if the contribution has been accepted.

The average allocated time for presentations is expected to be 25 minutes

including discussion. Contributors are kindly requested to provide, upon arrival, an electronic version of their presentation.

Invited and contributed talks will be published in the proceedings of the workshop.

5. Proceedings

The proceedings of the workshop will be issued on Nuclear Instruments & Methods in Physics Research A.

6. Accommodation

All participants are expected to stay in the Grand Hotel Rosa Marina.

7. Conference fee

The conference fee will be of 220€ and shall be paid upon arrival at the registration desk.

8. Social activities

An excursion to a local tourist attraction will be organized during the week, in collaboration with the hotel.

9. Summary of important dates

Deadline for receipt of abstracts:

June 30, 2020

Deadline for registration:

July 20, 2020

Deadline for cancellation with full refund:

July 31, 2020