

Third Workshop on Gas-Filled Detectors and Systems (GDS) ENSAR2 - WP6

First Circular

We are pleased to announce that the third topical Workshop on Gaseous Detectors and Systems (GDS) will be held in IPN Orsay (France) from the 23rd to the 25th of January 2019. It will be jointly organized by IPN Orsay and CEA-Saclay/SPhN.

Within ENSAR2, the GDS Network Activity workshop aims at gathering the nuclear physics community using gas detection systems to overcome challenges associated with their use in specific conditions: with ancillary detectors, in strong magnetic fields, with specific gases or very intense beams.

In this third topical workshop the status of the current instrumentation and future developments across the world will be presented and dedicated sessions will be devoted to the **perspectives and difficulties linked with the use of rare or expensive gas** within this systems. The goal is to collect the available data on what handling and recycling systems are already in existence, assess their main limitations, and propose how they could be improved. Operational characteristics of new gas mixtures will also be discussed.

Sessions will consist of plenary presentations by invited speakers and contributions selected among the submitted abstracts.

The following topics will be covered:

- Gas detections systems: ongoing and forthcoming projects
- Physics opportunities with rare/expensive gases: reactions on $^3,4\text{He}$, etc.
- Existing $^3,4\text{He}$ targets: gas jet, active target, cryogenic, etc.
- New gas mixtures
- Circulating systems
- Integration issues
- Simulations and Electronics

Both technical and physics-related contributed talks about the aforementioned topics will be considered.

Further information, registration and abstract submission on the web page of the event:
<https://indico.in2p3.fr/event/18026>

