# DRD4-WG2: Particle identification

WG2 meeting



### Preamble

- Main goals of this WG:
  - Develop advanced PID techniques.
  - Discussions of common issues related to PID among different experiments.
  - Validate the usage of novel photon detectors that are being developed in DRD4 for PID.
- > Some of the common challenges for different PID techniques:
  - Optimal optical design
  - Need to detect single photons with high precision.
  - Development and usage of new radiators. This includes the usage of eco-friendly gases
  - Issues related to mechanical integration
  - Efficient operation of new detectors
  - Making use of fast timing
- Selection of a PID technique depends on many factors
  - Examples: Momentum range, available space and budget, photon detector technology

## Plans

- We would like to encourage discussions on topics related to detector design and development.
- Some of these may eventually give rise to the creation of projects in a 'Work Package'.
- This may also facilitate to find solutions to common problems encountered in different projects.

#### Today:

- We start with two presentations
- At the end of the meeting, discussion on other potential topics of interest for this WG
- Afterwards, take steps to follow up on the items discussed.

### Next meeting :

- In mid-June, during the DRD4 collaboration week.
- Please let me know, if you wish to give a presentation or bring up a topic for discussion, in that meeting.