

# RD51 WG2 Discussion Meeting: Introduction

**This is the first half/one-day WG meeting (hopefully in series) to identify projects of common interest within the WG and ways to approach them**

**WG2 (Common Characterization and Physics Issues) is an important part of RD51 mostly concentrating around basic R & D studies :**

**Task 1: Development of Common Test Standards**

**Task 2: Discharge Studies and Spark-Protection Developments for MPGDs**

→ Paulo Fonte, Vladimir Peskov, Gabriele Croci, Harry van der Graaf

→ exp. inputs to Discharge & Raether Limit Simulation (Rob Veenhof)

**Task 3: Generic Aging and Material Radiation Hardness Studies**

→ Mar Capeans, Kari Kurvinen

**Task 4: Charging Up (Gain Stability Issues) and Rate Capability**

**Task 5: Study of Avalanche Statistics: Exponential versus Polya**

**Also WG1 Task 3: Development of Radiation-Hard Detectors**

→ Fred Hartjes, Maxim Titov

# RD51 WG2 Discussion Meeting: Future Plans

**2 Discussion Sessions moderated by speakers with inputs from all of you:**

- **Discharge Studies** → "Wish List" and Common Projects
- **Aging Studies** → "Wish List" and Common Projects

**Based on the meeting outcome, the objective is to raise the profile of the WG2 R&D Common studies and start preparing short documents/summaries:**

- **Discharge Studies** (definition and classification of discharges ( $n_{\text{dis}}$  or  $n_{\text{dis}} +$  discharge energy, definition of Raether limits, simulation etc ...)
- **Radiation Hardness Studies** (database of radiation-hard materials, aging studies toolkit, etc ...)
- **Common Test Standards** (how to compare different technologies & detector performance in different laboratories: evaluation methods (e.g. gas gain determination), etc ...)

**If you are interested in any of the subjects or worked earlier in one of the topics, do not hesitate to contribute  
Enjoy the workshop !**