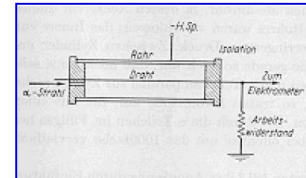


# Communications

&

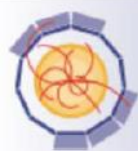
# miscellanea



# About scientific dissemination

- Publications, talks at conferences (even slides) need to be linked to AIDA2020:

- Always indicate:



## AIDA<sup>2020</sup>

### Scientific publications

- <http://aida2020.web.cern.ch/science/publications>

#### Publications

Long version:



*This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654168.*

Short version:



*Supported by the H2020 project AIDA-2020, GA no. 654168.*

#### Presentations

For presentations, please use this image:



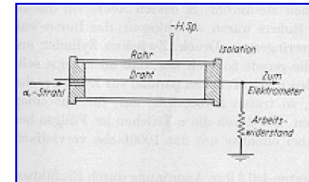
*This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654168.*



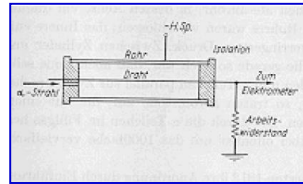
## AIDA<sup>2020</sup>

REMINDER

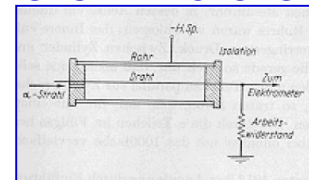
Help us keep track of publications, send them to us!



|   |   |
|---|---|
| 1 | F. Lagarde, M. Gouzevitch, I. Laktineh, V. Buridon, X. Chen et al. High rate, fast timing Glass RPC for the high $\{\eta\}$ CMS muon detectors XIIIth Workshop on Resistive Plate Chambers and related detectors, Feb 2016, Ghent, Belgium. Journal of Instrumentation, 11, pp.C09006, 2016 |
| 2 | The $\mu$ -RWELL: "A compact, spark protected, single amplification-stage MPGD", Nucl. Instr. & Meth A 824 (2016) 565.  |
| 3 | M. Alexeev et al., "The gain in Thick GEM multipliers and its time-evolution", 2015 JINST 10 (2015) P03026.   |
| 4 | M. Alexeev et al., "Status of the Development of Large Area Photon Detectors based on THGEMs and Hybrid MPGD architectures for Cherenkov Imaging Applications", Nucl. Instrum. Meth. A824 (2016) 139.   |
| 5 | S. Dalla Torre, "The brilliant present and the promising perspectives of the Micropattern Gaseous Detectors", Nuclear Physics News, Vol 26 (2016), no 3.  |
| 6 | L. Benussi for the CMS GEM collaboration, « A novel application of Fiber Bragg Grating (FBG) sensors in MPGD », arXiv:1512.08529 [physics.ins-det] INFN-15-10-LNF To be published in JINST ( <a href="http://cds.cern.ch/record/2118619">http://cds.cern.ch/record/2118619</a> )            |



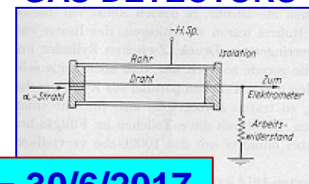
- **WP13 meetings during the last year**
  - 20/1/2017
  - 5/4/2017
- **WP13 reports at the Steering Committee meetings**
  - On 23/9/2016
  - On 2/2/2017
- **Periodical reports**
  - **P1 report (18 months)** sent to management on 5/12/2016
  - **WP14 mid term report (2 years)** sent to management on 28/3/2017



|       |   |    |               |     |    |     |
|-------|---|----|---------------|-----|----|-----|
| D13.1 | Validation of new resistive materials for RPCs (validation through the study of the rate and ageing properties of small RPC prototypes (single and multi-gap-detectors) exposed to intense sources/beams)   | 13 | LIP           | R   | PU | M36 |
| D13.2 | High-rate characterisation of large-size RPC prototypes (qualification at high intensity beam lines of large-size prototypes of optimised RPCs optimised for the rate response and the fine time)   | 13 | CNRS          | R   | PU | M44 |
| D13.3 | Optimisation of large-size precise space-resolution RPC structures (optimisation of the gas gap structure (gap thickness, internal segmentation) by prototyping and testing at high-intensity facilities)   | 13 | INFN          | DEM | PU | M36 |
| D13.4 | Large-size prototype of R-WGEM (a large-size fully engineered and validated prototype of the R-WGEM)  | 13 | INFN          | DEM | PU | M44 |
| D13.5 | Prototype of a large-size high-gain MPGD (a large-size fully engineered and validated prototype of the a high-gain ( $> 10^5$ ) MPGD)   | 13 | INFN          | DEM | PU | M44 |
| D13.6 | Miniaturised HV power supply (prototype of a MPGD-dedicated, remotely controlled, compact HV power supply; the control system includes the feed-back from environmental parameter sensors in order to implement on-line voltage compensation to obtain a stable gain) | 13 | CERN          | DEM | PU | M24 |
| D13.7 | Resistive anode manufacturing (protocols and tools for the large-size and large-scale production of resistive anodes for MICROMEAS)   | 13 | CEA           | R   | PU | M24 |
| D13.8 | MPGD gain map hole-by-hole (large-size prototype of the system for hole-by-hole gain measurement with UV light, in correlation with defects identified through optical inspection, for THGEMs and GEMs)   | 13 | WIGNER<br>RCP | DEM | PU | M44 |
| D13.9 | Production protocols of optimised RPC components (specification of the protocols for production procedures, quality assessment and quality control in view of large-scale production)   | 13 | INFN          | R   | PU | M36 |

= 30/4/2017





= 30/4/2017

= 30/6/2017

|         |   |    |     |                 |
|---------|---|----|-----|-----------------|
| MS13.1  | High-rate RPC prototype ready   | 13 | M24 | Prototype       |
| MS13.2  | RPC performance results with eco-friendly gases and use of recirculation gas systems  | 13 | M44 | Report to StCom |
| MS13.3  | Small-size prototype of the R-WGEM built and qualified                                | 13 | M24 | Prototype       |
| MS13.4  | Qualification of the new candidate materials for THGEM substrate                      | 13 | M26 | Report to StCom |
| MS13.5  | Interfacing the FE chip VMM128, GEMROC, TIMEPIX3 to SRS                               | 13 | M36 | Report to StCom |
| MS13.6  | PCB development using HDI-technology and 3D-mounting of chips for MPGD readout        | 13 | M44 | Prototype       |
| MS13.7  | Mechanical structure and supports for large, thin-gap RPCs                            | 13 | M30 | Prototype       |
| MS13.8  | Optical system for the quality assessment of MPGD foil/mesh mechanical tensioning     | 13 | M12 | Demonstrator    |
| MS13.9  | Integrated FBG sensors for monitoring the mechanical tension of MPGD films and meshes | 13 | M24 | Prototype       |
| MS13.10 | Quality control system to ensure the electrical integrity of electrode patterns       | 13 | M24 | Prototype       |
| MS13.11 | Protocol and specifications for MPGD production and quality control                   | 13 | M36 | Report to StCom |

## STATUS of the REPORTS

- D13.6, MS13.1 Finalized, sent to the management
- MS13.10 final version now available
- **D13.7, MS13.3, MS13.9 reports so far MISSING !!!**

MS13.4 Report to WP13 coordinators by 15 May 2017