




Whitepaper 1: MPGDs: Recent advances and current R&D

LOI title	Contact	Outline
Development of the Micro-Pattern gaseous detector technologies: an overview of the CERN-RD51 collaboration	awhite@uta.edu / klaus.dehmelt@stonybrook.edu	✓
High precision timing with the PICOSEC micromegas detector	Christos.Lampoudis@cern.ch	No response yet
Optical readout of MicroPattern Gaseous Detectors: developments and perspectives	florian.brunbauer@cern.ch	✓
Pixelated resistive MicroMegas for high-rates environment	massimo.della.pietra@cern.ch	✓
Trigger extensions for the scalable readout system SRS	Hans.Muller@cern.ch	✓
A high-gain, low ion-backflow double micro-mesh gaseous structure	zhzhy@ustc.edu.cn	✓
LOI from NSCL	cortesi@nscl.msu.edu	✓

Outline: After discussions with RD51 Management – outline will use RD51 LOI as overall guide, use sections of submission to LHCC for RD51 detailed activities, and add in sections from the other six LOI listed above.

Whitepaper 1:

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LOI title	Contact	First Draft
Development of the Micro-Pattern gaseous detector technologies: an overview of the CERN-RD51 collaboration	awhite@uta.edu / klaus.dehmelt@stonybrook.edu	
High precision timing with the PICOSEC micromegas detector	Christos.Lampoudis@cern.ch	No response yet
Optical readout of MicroPattern Gaseous Detectors: developments and perspectives	florian.brunbauer@cern.ch	In progress
Pixelated resistive MicroMegas for high-rates environment	massimo.della.pietra@cern.ch	Almost finished
Trigger extensions for the scalable readout system SRS	Hans.Muller@cern.ch	
A high-gain, low ion-backflow double micro-mesh gaseous structure	zhzhy@ustc.edu.cn	
LOI from NSCL	cortesi@nscl.msu.edu	In progress

IF05 – WP 1 - Schedule

- Outlines received (6/7)
- Mid-December – First draft WP sections
- January – iterate with section authors → ongoing
- Early February – second drafts of sections
- February – compile sections into WP
- March – complete WP