



Introduction WG3 – Gas and material studies

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on behalf of the DRD1 WG3 Convenors

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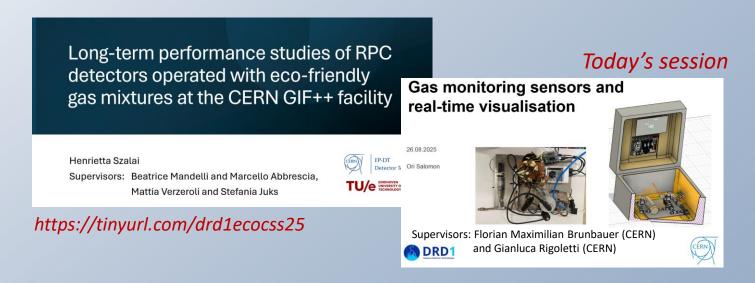
Mailing list: drd1-wg3@cern.ch

E-group link to subscribe: DRD1-WG3

Official discussion forum: https://drd1-forum.web.cern.ch/

Activities and communications

2 CERN Summer Student Projects successfully completed – Summer 2025



- OTELLO project proposal submitted to EU September 2025
 task 6.2 focused on the development of sustainable and high performance gas mixtures for next-generation gaseous detectors
- Thanks to the WG3 community, we received many talk proposals for this meeting.
 Unfortunately, it was not possible to accommodate them all this time.
 We look forward to hearing about your contribution at the next meeting.

Today's contributions

	Impact of trace amounts of water on the stability of MPGDs	Piotr Gasik	
		14:40 - 15:00	
15:00	Oxygen and isopropyl alcohol as additives in drift chamber gas mixtures	Francesco Renga	
		15:00 - 15:20	
	Development of a Modular Gas Monitoring System (GMS) for Real-Time Quality Assessment in Gaseous Radiation Dete Gianluca Rigoletti et al.		
	Negative ions as charge carriers in gaseous detectors: First results on SF6 and Xe-SF6 mixtures.	Afonso Marques	
		15:40 - 16:00	
16:00			
	Coffee time		
	Replacement of the SF6 in the RPC detector	Giorgia Proto	
		16:40 - 17:00	
17:00	Timing performance of Picosec Micromegas with environmental-friendly gas mixtures	Ilaria Vai et al.	
		17:00 - 17:20	
	Primary and secondary scintillation of Ar/N2 and Ar/CF4 mixtures under X-ray irradiation	Raul Senaris Buso	
		17:20 - 17:40	
	Unveiling Surface Chemistry and Ageing Pathways of GEMs through In-Situ Surface Spectroscopy	Tiago Fiorini da Silva	
		17:40 - 18:00	