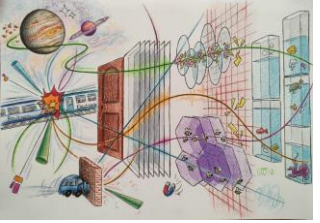


# 10th WG6 General Meeting

## News & Plan

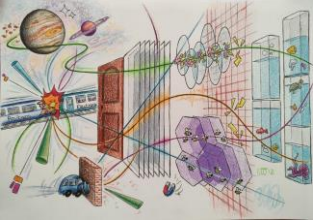
Alexander Oh, Xin Shi, Tao Yang

5 February 2025



- Upcoming DRDC review – Feb 13
  - Need to provide 1-2 pages for each project (please send us by this weekend)
  - Template see next page
- WP3
  - Development of radiation-hard GaN devices for MIP detection (Ottava) [link](#)
  - Radiation hardness of 25  $\mu\text{m}$  3D diamond detectors (Manchester) [link](#)
  - Pixelated Gain Devices on Epitaxial SiC (NIKHEF) (not found in CDS) ?
  - SiC LGAD Detector (IHEP) [link](#)
  - Towards a Radiation Damage Model for 4H-SiC with SiC Schottky diodes/Material and radiation hardness studies of planar SiC diodes (ÖAW)
  - **Graphene-optimized Silicon Carbide Detector (GSCD) Plan (see attached ppt)**

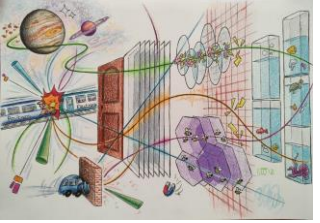
Green: OK / Orange: Need update CDS / Red: Need to upload to CDS



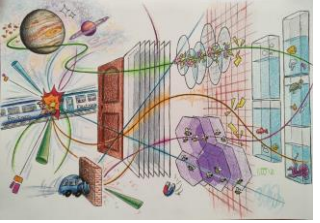
- Scientific achievements in 2024 with respect to WG6 research goals as in the DRD3 Proposal
- Project:
  - Project deliverables
  - Project contributors
  - Project resources

WG6 research goals <2027	
	Description
<b>RG 6.1</b>	Development of small cell 3D diamond detectors ( cages / interconnects, base length 25 $\mu\text{m}$ ) and possible exploitation of impact ionization
<b>RG 6.2</b>	Fabrication of large area SiC and GaN detectors, improve material quality and reduce defect levels.
<b>RG 6.3</b>	Improve tracking and timing capabilities of WBG materials
<b>RG 6.4</b>	Apply graphene and/or other 2D materials in radiation detectors, understand signal formation.

Table 11: WG6 research goals in the period 2024 - 2026



- Open session on February 24 - more general public talk
  - Presentations of the scientific achievements since the DRD3 approval with respect to the proposal planning and milestones for each WP + (associated) WG (including shortcomings): 4 x 10' + 15' discussion
- Closed session on February 25 – details
  - Presentations of deliverables and their rationale for the MoU annexe 7 with preview of contributors and assessment of the adequacy (or not) of the of resources for each WP: 4 x 10' + 15' discussion With participation restricted to the DRD3 management and the WP/WG conveners
- A similar review is planned after the second year
- A written status report and prolongation request after the third year



# Next Meeting

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**DRD3**

- Next General Meeting: 19th February
  - Will have scientific discussions
  - Please let us know if you want to share anything
- Additional info:
  - WG6 General : <https://indico.cern.ch/category/18202/>
  - <https://drd3.web.cern.ch/wg6>