

UGent x WGG4

- **Personpower:**
 - Kirill Skovpen (staff), Didar Dobur (faculty), Kevin Mota (postdoc), PhD student ([hiring!](#))
- **Relevant experience:**
 - **GEANT4:** simulation of low-energy neutron interactions in SND experiment; general simulation studies in CMS experiment (hadrons, tracking)
 - **Construction:** assembly of iRPC and GEM detectors for the CMS detector HL-LHC upgrade
 - **Computing:** responsible for Monte Carlo production in CMS (10B ev/year); workflow submission and monitoring; main developer of the CMS iRPC Detector Control System
 - **CPU/GPU:** track reconstruction in CMS experiment
 - Basic **deployment** tools: Docker, GitHub workflows, etc.
- (1) **Simulation** studies (4.4.X, 4.6.1):
 - Detector response for new and eco-gas mixtures
 - Alternative gas mixtures for thermal and fast neutron identification
- (2) **Software** improvement (4.1.1, 4.1.2):
 - Explore heterogeneous approach for Garfield++ routines that can be ported to GPU with Alpaka