

Gianpiero Vignola, DESY

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- PhD on MAPS and dSiPM in 2024
<https://doi.org/10.48565/bonndoc-546>
- Current position: DESY Fellow 1st year
- Current work 1: **OCTOPUS project**. R&D of a vertex detector prototype for future lepton colliders application
(see talk on Monday <https://indico.desy.de/event/49189/contributions/190818/>)
 - Simulations and implementation of a new Optimized MAPS layout "NCross" for performance optimization
 - Simulation of RO-concepts for high data rate $O(100 \text{ MHz/cm}^2)$
- Current work 2: Module Loading and Testing for **ATLAS ITK upgrade**
 - Loading of modules on petal core at DESY
 - Optimization of module loading procedures
 - Metrology and test of loaded petals

