

RD_FCC

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The RD_FCC activity is organized in Work Packages (WP) and comprehends all the FCC-related studies on FCC within INFN, it is funded by CSN1.

The RD_FCC LNF group is involved in two WPs, namely: WP2 on Accelerator and WP5 on Micro Pattern Gas Detectors (MPGD).

The description of the accelerator activities at the LNF are reported in the accelerator division chapter, in the dedicated paragraph on FCC.

The R&D on the μ -RWELL detectors for the RD_FCC project (WP5-MPGD) is described in the DDG_LAB section of the INFN-LNF Technological Facilities and Labs activity report.

The activities related to the FCC accelerator are all collected in CSN1 with RD_FCC, but they also have, in addition, external additional and partial fundings. Part of the group is member of the EU-H2020 INFRADEV program FCC Innovation Study (FCCIS), which includes some of the Machine-Detector Interface studies as well as the collective effects. On the other hand part of the group received Swiss funding through the CHART program for the positron damping ring and transfer lines design.

The LNF FCC group has an excellent representation in the FCC governance, as M. Boscolo is vice-chair of the executive board, and INFN member of the International Collaboration Board (ICB). M. Boscolo is also member of the FCC Coordination Group and FCC PED Coordination Group.