

Prof. Roberto Carlin

Born: 9 July 1959 in Belluno, Italy

CERN

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Professional positions:

- 2011 – present Professor, University of Padova, Department of Physics
- 1990 – present Research associate, INFN - Padova
- 1999 – 2011 Associate Professor, University of Padova, Department of Physics
- 1990 – 1999 Research Associate, University of Padova, Department of Physics
- 1989 – 1990 INFN post-doc, Padova

Education

- 1989 PhD in Physics, University of Padova
- 1984 Graduated in Physics “summa cum laude”, University of Padova

Activities in CMS

work on DT hardware and commissioning, CMS online operations, trigger, management

- Joined Padova/DT group of CMS after 2005, working at CERN on the commissioning of the DT chambers and their integration with the CMS DAQ and trigger environment. Became run and commissioning coordinator of the DT detector from 2008 to 2010, helping to bring the DT system to be one of the most reliable components at the LHC start-up.
- Several periods of CMS run field manager during the first and exciting LHC running years.
- Deputy project manager of the DT muon detector in 2011-2012.
- CMS trigger coordinator in the 2012-13 term, reconfirmed for the 2014-15. Coordinated the development in the years of fast increase of the luminosity, well above the design, and the transition from 8 to 13 TeV, 50ns to 25ns bunch spacing. Restructured the coordination with the PAGs and POGs, introducing trigger conveners directly appointed by the physics groups that work in the TSG environment to define the trigger strategies of CMS.
- Created and led various “task forces” to handle crisis conditions, in particular at the fast start-up of the 3 TeV period.
- Member of the CMS “trigger office” in 2016
- Presently, from Sep 2016, Deputy Spokesperson of the Collaboration.

Activities in ZEUS

Work on detector design, commissioning and installation, trigger and DAQ, management.

- Design, installation and commissioning of the barrel and rear muon detector (BRMU) detector (LST tubes with innovative TDC readout), end in particular of their trigger architecture, electronics and DAQ system, in the years between 1986 and 1992.
- Responsible from 1991 for the barrel and rear muon detector trigger of the ZEUS experiment in DESY (Hamburg), and member of the “trigger design team” of the experiment
- Project manager of the ZEUS BRMU detector from 1994 to 1998
- Trigger Coordinator of the ZEUS experiment from 1993 to 1996, in the initial years of operations and luminosity ramp-up of the experiment.
- Run coordinator in 1996.
- Shared Project Leadership (with R.Klanner and H.Tiecke) of the silicon strips vertex detector for the ZEUS/HERA upgrade, with focus on electronics, in the period of design, construction and commissioning from 1997 to 2003
- Deputy Spokesperson of the ZEUS experiment from 2003 to 2005, at the re-start after HERA upgrade.
- Responsible for conference assignment for the experiment.
- Italian regional spokesperson of ZEUS within INFN from 2004 to 2007

Other Activities

- From 1983 to 1989, as undergraduate and graduate student, worked on the PS170 at CERN low-energy antiproton beam LEAR, contributing to the development and commissioning of the central tracking detector (a MWPC with cathode-strips readout) to its analogue-digital readout, its calibration and integration, and to the analyses of the experiment.
- From 1986 to 1990, worked on FENICE experiment at ADONE in Frascati, Italy contributing to the design of the electronics of the hadronic calorimeter, designing and building a large fraction of the data-acquisition and on-line monitor systems, and contributing to the physics analyses.
- Referee of the Atlas experiment in the INFN scientific committee during the last phases of construction and commissioning.
- Member of the Technological Innovation committee of the Veneto region in Italy from 2006 to 2009.

Teaching

- 1990-2017 General Physics for Engineers (alternating first and second years), large courses with up to 400 students/year.
- 2009-2012 Introduction to Particle Detectors for Physics undergraduate students.
- Tutoring of students in Zeus and CMS.