

Giuseppe Chitarin (18/9/1958)



Giuseppe Chitarin received a doctoral Degree in Electrical Engineering from the University of Padova in 1982. In the same year he was awarded a fellowship on HVDC transmission lines research at CESI, Milan. In 1984 he joined CNR as researcher and participated to the design, assembly and commissioning of the magnets for the RFX Reversed Field Pinch experiment in Padova. From 1991 to 1997 he took part to several experimental studies on RFP plasma magnetic configurations, plasma instabilities and mode-locking phenomena and on their mitigation.

In 1990 he was Research Assistant at the University of Padova. He was appointed Associate Professor in 1998 and Full Professor at the University of Padova in 2023. From 1997 to 2008 he has been Leader of the Magnet System Group at Consorzio RFX and was responsible for the design of new local control coils for the active control of the magnetic configurations in RFX (1998-2004) and of in-vessel magnetic sensors for RFX, for JET-EP (2003-2007) and for ITER (2005-2008).

From 2008 to 2017 he has been deputy Programme Leader for the Physics and Engineering Developments of the Neutral Beam Test Facility (NBTF) for ITER at Consorzio RFX in Padova. Since July 2017 he is deputy Project Leader for the Accelerator/Neutralizer Physics and Experiments of the NBTF, where he is in charge of the high voltage tests in the MITICA experiment.

He is author of more than 200 international scientific papers and of one invention. His research interests include: - design and optimization of complex electromagnetic systems for high-temperature plasma confinement and material processing - operation of magnetic-confinement fusion devices (Tokamak and RFP) - design and optimization of magnetic devices and sensors for research and industrial applications - analysis of magnetic measurements data and identification of magnetic configurations - design, development and experimentation of high power Neutral Beam Injector for plasma heating.