

Lionello Marrelli

EMPLOYMENT

Lionello Marrelli is currently employed by CNR (ISTP: Istituto per la Scienza e Tecnologia dei Plasmi), since 1/04/1999, as a researcher and is working in Consorzio RFX, Padova, Italy.

EDUCATION

Laurea degree in physics 110/110 cum laude Padua University (11/1991)

“Diplome d’Etude Approfondie en Physique des gaz et plasmas” Université Paris XI, 06/1990

PhD in Energetics (1997)

SUMMARY OF EXPERTISE

Most of L. Marrelli research activity has been performed in the framework of the RFX experiment, but he has also been involved in several collaborations with other fusion experiments (Extrap-T2R, MST, ASDEX and DIII-D). L. Marrelli activities focused on:

- i) participation to the design, realization and data analysis of tomographic bolometric and SXR diagnostics;
- ii) magnetic fluctuation analysis (characterization of helical states in RFP plasmas);
- iii) numerical (with particle transport approach) and experimental characterization of transport in RFPs and tokamaks;
- iv) participation to the design and to data analysis of real-time MHD feedback control experiments in RFP and tokamak
- v) simulation of error fields due to passive structures in RFX-mod2 by means of electromagnetic simulations

He is co-author of 151 papers (45 among principal authors, 9 as corresponding author; H-index 30) in peer-reviewed journals. (ISI Web of Knowledge ResearcherID: G-4451-2013
ORCID; <https://orcid.org/0000-0001-5370-080X>)