

Chiara Piron

Researcher in Plasma Physics

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Research Fields

- > Real-time integrated modelling of plasma scenarios
- > Development of advanced plasma scenarios
- > Real-time control of MagnetoHydroDynamic (MHD) instabilities

Biosketch

2019 Permanent Researcher position at ENEA

2017 EUROfusion Engineering Grant - Consorzio RFX, EUROfusion
Project: "DEMO control simulations based on the RAPTOR code"

2016 Post-doc fellowship - Università degli Studi di Padova
Project: "Study and development of real-time MHD control on fusion plasmas"

2015 Joint European Doctorate in Fusion Science and Engineering -
Università degli Studi di Padova, Universidade de Lisboa
Project: "Experiments and Modelling of Active Control of MHD instabilities"

2011 Master degree on physics - Università degli Studi di Padova
Project: "Study of magnetic reconnection events in fusion plasmas"

Main position covered

Scientific Coordinator of EUROfusion work programs:

MST1-T13: "Control of advanced/ non-inductive scenarios"

MST1-T16: "Extension of the operating space of fully non-inductive scenarios on AUG and TCV towards higher $\beta_N \gtrsim 2.5$ and/or stationary or quasi-stationary operation"

JET-TF-T02: "Real-time controllers in preparation of scenarios"

MST1-TCV15 1.4-1: "Plasma response to error fields at high beta and low-rotation" International Collaboration

Co-Supervisor of a PhD thesis project

International Collaborations

TCV, EPFL SPC – École Polytechnique Fédérale de Lausanne, Swiss Plasma Center, Lausanne, Switzerland

JET, CCFE – Culham Science Centre, Abingdon, United Kingdom

DIII-D, GA - General Atomics, San Diego, California, USA

Publications

<https://scholar.google.com/citations?hl=en&user=Bu7OX5gAAAAJ>