

# Tommaso Bolzonella

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Senior researcher in plasma physics  
Consorzio RFX, Corso Stati Uniti, 4, 35127 Padova (Italy)  
Tel: +390498295083  
e-mail: [tommaso.bolzonella@igi.cnr.it](mailto:tommaso.bolzonella@igi.cnr.it)



## RESEARCH FIELDS

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- Magnetohydrodynamic stability of fusion plasma, including active control techniques
- Interaction between magnetically confined plasmas and energetic particle beams
- Integrated modelling of fusion device operational scenarios

## BIOSKETCH AND MAIN POSITION COVERED

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Tommaso Bolzonella has been working in the field of plasma physics since 1993. He is researcher at Consorzio RFX, Padova since 1997, where he kept his basis while spending a consistent fraction of time abroad and in numerous international collaborations.

- 2009-2011: Responsible of the European EFDA task on “Coordination of plasma control activities” under the ITM (Integrated Tokamak Modeling) Task Force.
- 2009 - : Member of the European Physics Unit in the European Home Team of JT-60SA programme as Technical Responsible Officer for “MHD stability and control”
- 2016-2019: deputy Task Force leader of EUROfusion MST1 Work Package.
- 2017 -: EU representative in the ITPA MHD, Disruption & Control Topical Group.
- 2019 -: Coordinator of EU modelling activities related to JT-60SA

Education and training new scientist generations is also an important part of his work.

- since 2001 TB regularly collaborates with the Padova University
- 2005 - : responsible (full teaching load) of the course of “Physics of Fluids and Plasmas” for the last year of the degree in physics.
- 2010 - : member of the Academic Council of the International PhD in Fusion Science and Engineering.

TB is also regular tutor of degree and PhD thesis projects.

## INTERNATIONAL COLLABORATIONS

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- Swiss Plasma Center, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland
- Max-Planck-Institut für Plasmaphysik (IPP), Garching bei München, Germany
- Joint European Torus (JET), Culham, UK.
- Royal Institut of Technolog (RIT), Alfvén Laboratory, Stockholm, Sweden.
- Naka Fusion Institute of the Japanese National Institutes for Quantum and Radiological Science and Technology (QST), Naka, Japan.

## SUMMARY OF PUBLICATIONS

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As for September 2020, TB is author or co-author of more than 110 papers in peer reviewed international journals (h-index of 37, source ISI web of Science).