

GIANLUCA SPIZZO – CURRICULUM VITAE

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EMPLOYMENT

December 2009 – Present. **Research Scientist**, Consiglio Nazionale delle Ricerche (National Council of Research, CNR) at Consorzio RFX, Padova (Italy)

2001 – 2009. **Research Scientist**, at Consorzio RFX, Padova (Italy)

EDUCATION

2000. **PhD in Energetics**, Università di Padova

1996. **M.Sc. in Physics (condensed matter)**, Università di Padova

SUMMARY OF EXPERTISE

- Researcher in the field of fusion plasma physics; expertise in experiment (soft X-ray and total radiation tomography, magnetic turbulence measurements) and modeling;
- Collaboration since 2003 with prof. Roscoe White (Princeton Plasma Physics Laboratory, USA) in the development and exploitation of the Hamiltonian, guiding center code ORBIT for the study of standard and nonlocal particle transport in plasmas, and wave-particle interaction, in particular concerning the thermal and fast particle interaction with arbitrary 3D magnetic fields;
- Experience in standard data analysis, signal processing and tomography techniques (inversion of ill-posed problems, singular value decomposition, maximum entropy and regularized chi square minimization);
- Expertise in complex diffusion equations (Fractional Kinetic operators and Montroll-Weiss equation);
- Member of the American Physical Society (APS);
- Supervisor of undergraduate, graduate and PhD students;
- Referee for plasma and/or general physics journals (including Nuclear Fusion, Physics of Plasmas, Plasma Physics and Controlled Fusion, Chaos, Journal of Computational Physics);
- Experience in public information & outreach activities.

SUMMARY OF PUBLICATIONS

- 111 papers (13 as leading author) in peer-reviewed journals (ORCID ID: [0000-0001-8586-2168](https://orcid.org/0000-0001-8586-2168))
- 2200 citations in total
- H-index: 26 (ISI Web of Science Researcher ID [B-7075-2009](https://orcid.org/B-7075-2009))
- 40 verified reviews in Publons
- 160 conference contributions (8 as an invited speaker)