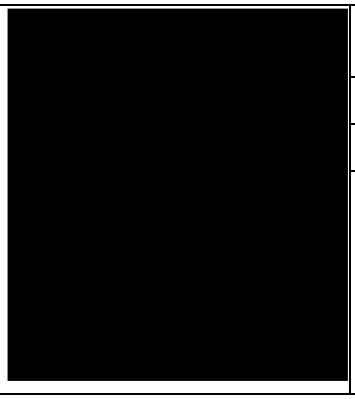


PAOLO BURATTI

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Experience

POST-RETIREMENT **01/03/2022 – ongoing**	Collaboration with INAF on high-energy astrophysics: study of relativistic particle acceleration by magnetic reconnection.
WORKING AT ENEA	
2019- 28/02/2022	Coordination of FTU experiments on the interaction between plasma waves and runaway electrons.
2021-2022	Contact person for the participation to the PrIO Eurofusion Work Package.
2013 - 2019	Responsible of the FTU scientific production
2013 - 2015	Scientific Coordinator of JET task T13-11 on MHD markers
2011 - 2012	Scientific Coordinator of the Frascati Tokamak Upgrade experimental programme
2011 - 2012	Scientific coordinator of JET experiment Px.3.3.5 on Neoclassical Tearing Modes
2008 - 2010	Working Group Leader within the EFDA-MHD TG
2007 - 2008	Task Force leader of RFX TF2: MHD and active control of instabilities
1999 - 2000	Deputy Leader of JET S2 Task Force
1997 - 2001	Project leader of FTU Experiments analysis
1993 - 1997	Project leader of Far-infrared and mm-wave diagnostics for FTU

Education

1977	**Degree (magna cum laude), Physics, Univ. Pisa, Italy**
1977	Licenza in Fisica, Scuola Normale Superiore, Pisa, Italy

SELECTED PUBLICATIONS

- W. Bin, C. Castaldo, F. Napoli, P. Buratti et al Phys. Rev. Lett. **129**, 045002 (2022)
- Buratti P et al "Fast dynamics of radiofrequency emission in FTU plasmas with runaway electrons" Plasma Phys. Control. Fusion **63** 095007 (2021) https://doi.org/10.1088/1361-6587/ac138c
- Buratti P et al "Analytical studies of PROTO-SPHERA equilibria" J. Plasma Phys. **86** 845860602 (2020) doi:10.1017/S0022377820001427
- Buratti P "Magnetic reconnection and impulsive instabilities in tokamak plasmas: Some analogies with astrophysical flares" M. Tavani (eds.) A Decade of AGILE. Rendiconti Lincei 30, Supplement 1, 2019, pp. 101–106.
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- Causa F and Buratti P "Analysis of runaway electron expulsion during tokamak instabilities detected by a single-channel Cherenkov probe in FTU" Nucl. Fusion **59** 046013 (2019)
- Buratti P et al., "Diagnostic application of magnetic islands rotation in JET" Nucl. Fusion **56** 076004 (2016)
- Buratti P et al "Kink instabilities in high-beta JET advanced scenarios", Nucl. Fusion **52**, 023006 (2012).
- Buratti P, Smeulders P, Zonca F, et al., "Observation of high-frequency waves during strong tearing mode activity in FTU plasmas without fast ions", Nuclear Fusion **45** 1446 (2005).
- Buratti P, Giovannozzi E, Tudisco O, "Purely growing precursors and sawtooth trigger mechanisms", Plasma Phys. Control. Fusion **45** L9-L16 (2003)
- Buratti P et al. "High Core Electron Confinement Regimes in FTU Plasmas with Low or Reversed-Magnetic Shear and High Power Density Electron-Cyclotron-Resonance Heating" Phys. Rev. Lett., Vol. **82**, 1999, Page 560.
- Buratti P and Zerbini M "A Fourier transform spectrometer with fast scanning capability for tokamak plasma diagnostic" Rev. Sci. Instrum. 1995 Vol 66 pag. 4208.

Il sottoscritto Paolo Buratti autorizza il trattamento dei dati personali riportati nel presente curriculum vitae, ai sensi del D.L. 101/2018 e dell'art. 13 GDPR (Regolamento UE 2016/679)

Il sottoscritto Paolo Buratti consapevole delle sanzioni penali previste dall'art. 76 del D.P.R. 28 dicembre 2000, n° 445 nelle ipotesi di falsità in atti e dichiarazioni mendaci, dichiara che le informazioni riportate nel presente curriculum vitae redatto in formato europeo corrispondono a verità

Frascati 03/03/2023