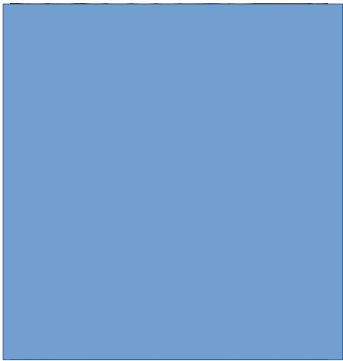
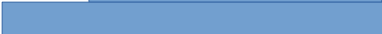


## CV Paolo Buratti

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Name: Paolo<br/>Surname: Buratti<br/>Date of birth: <br/>Phone: <br/>Cell.: <br/>Email: </p> |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Post-retirement experience

|                         |                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 01/03/2022 - ongoing    | Collaboration with INAF on high-energy astrophysics: study of relativistic particle acceleration by magnetic reconnection. |
| 10/05/2023 - 10/05/2024 | Collaboration contract with ENEA on “Fisica della Fusione e Astrofisica”.                                                  |

### 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 Topic Group.                                          |
| 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

- F. Alladio et al 2024 Plasma Phys. Control. Fusion 66 035011 “PROTO-SPHERA: a magnetic confinement experiment which emulates the jet + torus astrophysical plasmas”.
- W. Bin, C. Castaldo, F. Napoli, P. Buratti et al Phys. Rev. Lett. vol. 129, 045002 (2022).
- Buratti P et al “Fast dynamics of radiofrequency emission in FTU plasmas with runaway electrons” Plasma Phys. Control. Fusion vol. 63 095007 (2021)  
<https://doi.org/10.1088/1361-6587/ac138c>.
- Buratti P et al “Analytical studies of PROTO-SPHERA equilibria” J. Plasma Phys. vol. 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.
- Buratti P et al “1-D Modeling of the Screw-Pinch Plasma in PROTO-SPHERA” Fluids 2019, vol. 4, 42.
- Causa F and Buratti P “Analysis of runaway electron expulsion during tokamak instabilities detected by a single-channel Cherenkov probe in FTU” Nucl. Fusion, vol. 59 046013 (2019).
- Buratti P et al., “Diagnostic application of magnetic islands rotation in JET” Nucl. Fusion, vol. 56 076004 (2016)
- Buratti P et al “Kink instabilities in high-beta JET advanced scenarios”, Nucl. Fusion, vol. 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 vol. 45, 1446 (2005).
- Buratti P, Giovannozzi E, Tudisco O, ”Purely growing precursors and sawtooth trigger mechanisms”, Plasma Phys. Control. Fusion, vol. 45, page L9-L16 (2003).
- Buratti P et al. 1999 “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, 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 page 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 26/05/2025



Paolo Buratti