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Aula Caminetto, Via di S. Marta 3, 50139, Firenze

Register at: <https://events.vtools.ieee.org/m/544765>

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ING. ROBERTO FABBRI



ATOMIC CLOCKS FOR SPACE APPLICATIONS

Time is present everywhere around us and is integral part of our daily lives.

The precise measurement of time intervals is the foundation of countless human activities, including aviation, telecommunications, smart grid synchronization, research and science applications (e.g., radio astronomy, interferometry, etc.), definition of international time and satellite navigation (GNSS).

The beating heart of these systems is a quartz oscillator or, much more often, an atomic clock.

This seminar introduces the world of atomic clocks for space applications, focusing on microwave atomic clocks, describing the physical operating principles of the technologies currently used, their metrology, performances, and limitations.