

The GINGER project: a sophisticated array of large area gyroscopes for interdisciplinary science

Prof. A. Porzio
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When: Thursday 04 December 2025, 14:30 CET

Venue: Scuola Superiore Meridionale – Via Mezzocannone 8, Primo Piano

Abstract: The GINGER project was born nearly 15 years ago for realising Earth-based General Relativity tests by measuring the Earth's rotation rate with unprecedented precision. To this end, we are building an array of ring-laser gyroscopes at the INFN Gran Sasso National Laboratory. On its way, improving the comprehension and the performance of this class of device the GINGER collaboration has disclosed several interesting aspects both of the RLGs underlying physics and on the applicability of rotation data to geophysics and seismology.

Bio: Prof. Alberto Porzio graduated cum laude at the University of Napoli Federico II in 1995. In 1999, he got his PhD in Physics, working on quantum optics and quantum communication. After more than 20 years of career at the CNR, he has been recently appointed Associate Professor of Physics at the University of Cassino. Actually, his major scientific interest spans the area of optical measurements in the quantum regime.

*Event organized by the PhD program “Cosmology, Space Science & Space Technology”,
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