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Ring-laser and fundamental physics

Friday 26 October 2018 09:20 (40 minutes)

GINGER (Gyroscopes IN General Relativity) is a proposal aiming at measuring the Lense-Thirring effect with an experiment based on Earth. It utilises an array of ring lasers, which are the most sensitive inertial sensors to measure the angular rotation rate of the Earth. This experiment is Earth based, it is well known that Lense Thirring tests are currently done with space experiment, but the earth based one provides the measurement at a certain latitude and the map of the gravity field is unnecessary. The interdisciplinary nature of this experiment will be outlined, with particular attention to the dark matter search.

Presenter: DI VIRGILIO, Angela

Session Classification: Morning session