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The GINGER Project

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GINGER (Gyroscopes IN General Relativity) is a proposal aiming at measuring the Lense-Thirring effect with an experiment based on Earth. It is an array of ringlasers, which are the most sensitive inertial sensors to measure the rotation rate of the Earth. After reviewing the importance of light as a probe for testing the structure of space-time, we describe the GINGER project. GINGER is based on a three-dimensional array of large size ring-lasers able to measure the de Sitter and Lense-Thirring effects. The instrument will be located inside the underground laboratory of GranSasso of INFN, in Italy. We describe the preliminary actions and measurements already under way and present the full road map to GINGER. The prototypes GP2 and GINGERino are described and the preliminary results reported.

Primary author: DI VIRGILIO, Angela Dora Vittoria (PI)

Presenter: DI VIRGILIO, Angela Dora Vittoria (PI)

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