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Ring Laser gyroscopes and Gravitational waves research

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The INFN research for the development of top sensitivity ring laser gyroscope began about 15 years ago. At that time the aim was to develop top sensitivity tiltmeter for the Virgo suspensions, and the CSN2 has financed a group to develop ring laser gyroscopes for fundamental physics investigation. At present the apparatus GINGER, based on an array of ring lasers, is under construction inside the underground laboratory of LNGS and a transportable ring laser, called TRIO, has been built in Pisa. The feasible sensitivity and the possible utilisation for third generation GW detection will be discussed.

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