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Advancements in geodetic observations with large ring laser gyroscopes

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A multitude of different globally distributed and independent mass transport phenomena lead to non-predictacle fluctuations in the Earth's rotation rate Ω_e . Large Sagnac interferometers in the form of ring lasers enable the instantaneous observation of variations in Ω_e at a level of a few ppb. Here, the benefit of this technique, as well as recent advancements and future possibilities are discussed.

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