

Die experimentelle Bestätigung des Thirring-Lense-Effekts

Franz Embacher¹
November 2004

Der Thirring-Lense-Effekt ist die von der Allgemeinen Relativitätstheorie vorausgesagte Mitführung des „nichtrotierenden Zustands“ in der Nähe rotierender Massen. Sowohl lokale Inertialsysteme (kräftefrei aufgehängte Kreisel) als auch die Bahnebenen von Satelliten sollten davon betroffen sein. Nachdem die Größe dieser Effekte im Jahr 1918 von Hans Thirring und Joseph Lense berechnet wurde, galten sie für lange Zeit als unbeobachtbar klein.

Vier Jahrzehnte später dachten George Pugh (1959) und Leonard Schiff (1960) unabhängig voneinander die Möglichkeit eines Präzisionsexperiments mit einem Kreisel im Erdumlauf an. Es sollten fast vier weitere Jahrzehnte vergehen, bis die Vorbereitung und Durchführung von Experimenten zum Nachweis der extrem kleinen Effekte in Angriff genommen werden konnte. Heute verlaufen die Anstrengungen zum Nachweis des Thirring-Lense-Effekts vor allem in zwei Projekten:

LAGEOS

Die erste Gruppe (um den italienischen Physiker I. Ciufolini) vermisst die Bahnen zweier Erdsatelliten², LAGEOS (= *Laser Geodynamics Satellite*, seit 1976 im Umlauf) und LAGEOS 2 (seit 1992 im All). Die ursprüngliche Bestimmung der beiden Satelliten ist die genaue Vermessung des Gravitationsfelds der Erde. Es handelt sich um 406 kg schwere passive Kugeln von 60 cm Durchmesser, deren Positionen durch Laufzeitmessung reflektierter Laserpulse bestimmt werden (Fig. 1).

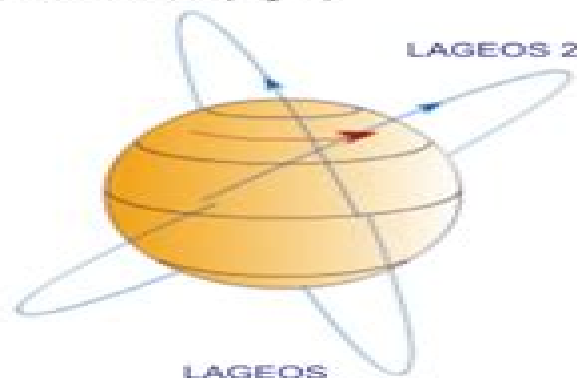


Fig. 1

Die Bahnen von LAGEOS und LAGEOS 2. Die großen Halbachsen sind 12270 und 12210.

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² Es handelt sich um eine Kooperation von NASA und ASI (= Agenzia Spaziale Italiana, italienische Raumfahrtagentur).

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