



LIGO and VIRGO Experiments of the operating principle of the Gravitational Reactor in the world. Across the world, the operating principle of the gravitational reactor has been tested for more than 10 years. The main laboratories are those of the United States of Hanford (W) and Livingston (L), Europe in France (Paris), and Italy. Soon in Japan, India and in many other countries. The first positive results were obtained in the United States from 2015.

CQED Experiments

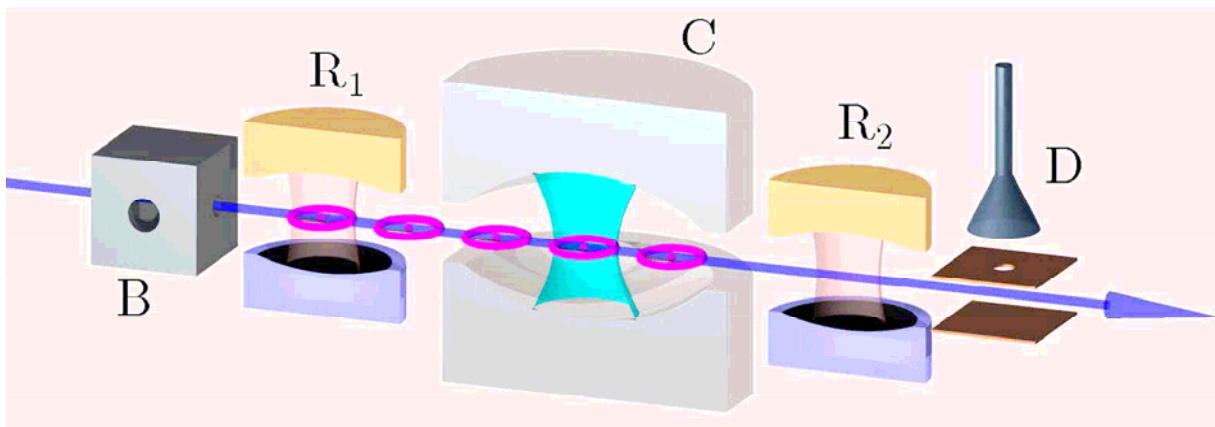


Figure 1: Outline of the LKB experiment where photons are observed via probe atoms. Photons (shown in blue) are trapped between the two mirrors of the cavity (C). They are probed by two-level atoms that fly out of the preparation box (B) and pass through C. Each atom is manipulated before and after it passes through C in Ramsey cavities R_1 and R_2 , respectively. It is finally detected in D in either a ground state $|g\rangle$ or an excited state $|e\rangle$.

Experiments of the operating principle of the Gravitational Reactor in the world.

Other experiments in the USA and Europe suggest that the GEAR principle is viable. More recently the work of Serge Haroche (2007) at the Laboratoire Kastler Brossel (LKB) won the Nobel Prize for Physics in 2012 for a series of experiments of Quantum Electro-Dynamics (CQED), based on observations and manipulations of photons and Rydberg atoms with a large circular orbit. This experiment allowed us to validate our hypotheses on the GEAR reactor by observing the absorption of the gravitational field energy by the photons present in the CQED cavity (see article on the CQED experiment). This experience is programmed in our R & D for 2019.