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Gravitational Wave Science with the European Pulsar Timing Array

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In 2016, a new term spread through newspapers with the first detection of gravitational waves by the LIGO detectors. In addition to further proving the theory of General Relativity postulated by Albert Einstein one hundred years prior, this discovery paved the way for a completely new method of observing the Universe. Due to their nature, gravitational waves cannot be blocked by dust or matter, making them ideal for contemplating the very first moments of the Universe. In this talk, I will delve into the science that a galactic-sized gravitational wave detector using dead stars, namely a Pulsar Timing Array (PTA), can accomplish, as well as the current status of the European PTA results.

Auteur principal: QUELQUEJAY, Hippolyte (Laboratoire Astroparticule et Cosmologie)

Orateur: QUELQUEJAY, Hippolyte (Laboratoire Astroparticule et Cosmologie)

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