

A Detector for Gravitational Waves

Timetable of the main events

Rome, October 2000

Early 1994. A true "electric" instrument, consisting solely of a Wheatstone bridge and a cadmium sulphide photoresistor placed in one of the two arms and illuminated by a constant light source, starts recording "anomalous" voltage variations.

April 1994. The instrument starts recording a series of "fork" shaped voltage variations both positive and negative. The instrument is set for a continuous recording.

September/October 1994. The detecting of an high amplitude positive and precise "fork" makes us think *these are intensive energetic events occurring in the Universe, not having terrestrial (electromagnetic) origin.*

Early 1995. After several checks and tests, it comes out the detector behavior cannot find any proof within the *Laws of Physics* (Electromagnetism). This will be the detector "puzzle".

August 1995. The recording of a peculiar event (a negative "fork" followed by a couple of positive low amplitude and quite wide "forks", partially overlapped), allows a first analysis of the redshift of these signals and, thus, of the distance from us of the events that have generated them.

First half of 1996. The origin and nature of these waves are understood. They are very high intensity *Gravitational Waves* produced by typical *Multiple Nucleus Quasars* that take place into the centre of galaxies clusters.

Middle 1996. A second detector is assembled, alike the previous one but independent.

End 1996. A quite simple and satisfactory explanation on the detector "puzzle" can be given in terms of *variable speed of light.*

Middle 1997. After about one year of continuous recording, the second detector starts recording voltage variations similar to those of the previous one.

Second half of 1997. Two *LED light detectors* are assembled to explore short time voltage variations.

Early 1998. After solving remarkable noise problems, the LED light detectors start to operate. *Gravitational Waves of small intensity and short time duration* are discovered.

Middle 1998. A new series of gravitational waves very similar to those recorded in 1994 are detected.

August 1999. A very high intensity event allows to better understand the *interaction of Gravitational Waves with matter and fields* (electric and magnetic).

October 2000. A decision is taken to publish all the work done up to now through the Internet at: www.omirp.it.