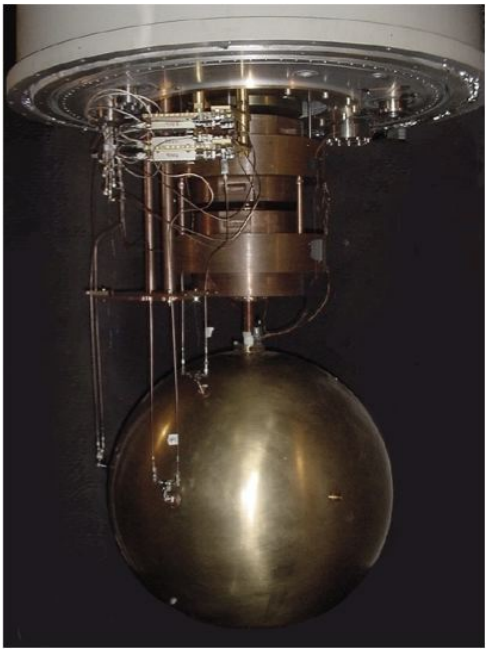

Fig. 5. The position on the sphere surface of the three initial transducers can be seen. It is also possible to see the cabling lines going and coming from these transducers and the three cryogenic microwave amplifiers installed close to the bottom wall of the liquid helium reservoir.

of such a detecting system. Furthermore, detecting a wave with a different physical principle (absorption of the wave energy by the resonant-mass) will certainly contribute to our knowledge of it.

5. CONCLUSIONS

The sources of gravitational waves can be: galactic, extragalactic, cosmological, and even from previous universes.

The spectrum goes from 10^{-18} Hz to 10^{10} Hz.

If extra-dimensions exist, gravitational waves have transit in them.

The probability of new revolutionary discoveries is very high.

Explained by the importance of these discoveries, the gravitational wave community has been growing significantly in the past decade. In the 80s, a gravitational wave data analysis paper would involve only about thirty authors, now it can involve 700.

Because spherical antennas are able to determine the origin of the signal in the sky and its polarizations, they will probably play an important role on these new discoveries.

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Fig. 6. The sphere was raised about 1.5 meters and immobilized. Beneath it a wooden floor was mounted, which made the assembly work easier. Two nine steps swimming pool ladders were built to provide access to the top of the detector.

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