Two research fellow opportunities at Urbino University

The Firenze-Urbino Virgo group (Italy) is seeking to hire two research fellows in gravitational-wave physics. The positions are for one year, renewable up to three years. You can find below the two research programs, the first one focusing on experimental activities regarding thermal noise and the second one focusing on data analysis.

The research program is devoted to the improvement of the sensitivity of present interferometric detectors for gravitational waves by mitigation of the thermal noise, in mirror coatings as well as in the last stage of mirror suspension.

Our group has the responsibility of the production and characterization of the fused silica fibers used in the last stage suspension of the Advanced Virgo mirrors and is part of the Virgo Coating R&D collaboration devoted to the measurement of mechanical and optical properties of the mirrors' reflecting coatings.

The experimental activity will be mainly carried out in the laboratory in Urbino.

The research program is devoted to gravitational waves low latency data analysis and detector characterization.

Virgo-INFN Urbino group plays an active role in the data analysis in the search of gravitational waves from astrophysical systems such as binary neutron stars/black holes systems. The group works especially on the development and application of data analysis tools for low latency analysis, in order to send alerts to astronomical observatories in the search of an electromagnetic counterpart of a gravitational wave event. The activity is done in collaboration with LIGO and Virgo data analysis groups and benefits of an international research environment. The research fellow will be associated to INFN and to the Virgo collaboration and will also work on gravitational waves detector characterization.

We encourage all interested candidates to visit the page [https://www.uniurb.it/concorsi/5430](https://www.uniurb.it/concorsi/5430) by July 15th, 2020 and to contact Prof. Filippo Martelli ([filippo.martelli@uniurb.it](mailto:filippo.martelli@uniurb.it)) or Prof. Gianluca M Guidi ([mailto:gianluca.guidi@uniurb.it](mailto:gianluca.guidi@uniurb.it)).