

Post-doc position at INFN Pisa to work on the Virgo commissioning

Duration: 24 months - position can start July - December 2020

INFN-Pisa is looking for a post-doctoral researcher to work on the installation and commissioning of the gravitational-wave interferometer, AdvancedVirgo+.

The AdvancedVirgo detector is starting the implementation of a series of upgrades, including the installation of a new laser, the frequency-dependent squeezing and the installation of a new mirror, called Signal Recycling. This additional mirror will change the way the control of the full instrument is acquired and imply the installation of new hardware to cope with this configuration change.

The post-doctoral researcher will be part of the team in charge of the new laser system to acquire the control of the full detector and its commissioning. He/she will later participate in the commissioning of the global control of the AdvancedVirgo interferometer and in the reduction of the different technical noises to reach the design sensitivity of the instrument.

Qualification

PhD in physics or optical engineer.

The ideal candidate should have experience with control feedback systems and optics. Knowledge of Matlab and Python will be also appreciated.

Contact:

Giancarlo Cella - giancarlo.cella@pi.infn.it

Maddalena Mantovani - mantovan@ego-gw.it

Nicolas - leroy@lal.in2p3.fr