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Status of the Advanced Virgo project

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The European detector Advanced Virgo is ending the installation phase and the plan is to run during 2016 joining the LIGO detectors installed in USA. Its improved sensitivity will increase the detection probability of GW events.

In this talk we summarize the scientific outcome of the old network of advanced detectors in the past configuration. Then, we emphasize the potentialities of the new network in the context of the multimessenger astronomy, which will combine the GW information with those of the electromagnetic and neutrino signals likely emitted during the same astrophysical process.

Collaboration

Fulvio Ricci on behalf of the Virgo collaboration

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