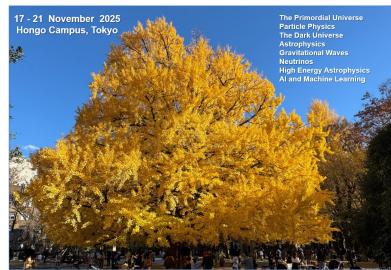


Second International Conference on the Physics of the Two Infinities



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Hunting gravitational waves with Virgo: status, results and future prospects.

lundi 17 novembre 2025 16:10 (25 minutes)

Since the first gravitational-wave (GW) detection in 2015, GW astronomy has undergone a remarkable expansion, culminating in 90 events observed during the first three observing runs of the Advanced LIGO and Virgo detectors and more than 200 public alerts from the still ongoing fourth observing run. In these discoveries, Virgo played an important role, providing crucial contributions to source localization and parameter estimation. In this talk, I will present an up-to-date overview of the Virgo interferometer, emphasizing its impact within the global network of ground-based detectors. I will also explore the range of ongoing searches, showcasing notable recent results, and conclude with a perspective on forthcoming upgrades.

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