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Type: **Invited talk**

Gravitational-wave transient candidate alerts: prospect and challenges for the multi-messenger astronomy

vendredi 2 juin 2017 14:00 (35 minutes)

The first observation of gravitational waves by the Advanced LIGO interferometers opened a new frontier of observational astrophysics. The detection of electromagnetic signals associated with gravitational-wave observations will be crucial for giving a complete picture of the astrophysical sources and their environment, allowing us to probe the physics of the energetic transient phenomena in the sky, and to shed light on the formation, evolution and nature of compact objects. The talk will describe the ongoing electromagnetic follow-up program; the world-wide effort of space and ground-based gamma-ray, x-ray, optical, infrared, and radio facilities observing together with the advanced gravitational-wave detector network to hunt the elusive electromagnetic counterparts. Prospects and challenges for joint observations and data analysis will be outlined.

Auteur principal: BRANCHESI, Marica (Università di Urbino/INFN-Sezione di Firenze)

Orateur: BRANCHESI, Marica (Università di Urbino/INFN-Sezione di Firenze)

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