

## Re-solving multi-messenger puzzles with Very Long Baseline Interferometry

The detection of information carried by means other than electromagnetic waves has opened a new era in the study of the Universe. Very Long Baseline Interferometry, thanks to its exquisite angular resolution, remains the only technique allowing astronomers to directly image the most compact structures associated with the emission of energetic photons or other carriers of information, as well as their evolution. An outstanding example was the observation of the formation of a jet following the first - and so far unique - concurrent detection of gravitational and electromagnetic waves in GW 170817. I will present the observational and astrophysical novelty of the VLBI campaign following this event, and the prospects for future synergies between VLBI and next generation GW detectors, especially focussing on the Einstein Telescope.

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