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False Alarm Rate computation for MBTA single detector triggers

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The LIGO-Virgo collaboration is using three interferometers and several analysis pipelines in order to observe the sky in search of gravitational waves of different origins. Detected gravitational waves events were usually required to be found in coincidence in at least two detectors in order to be selected as candidates. The increase in sensitivity now enables the search of candidates within single detector triggers to increase statistics. The work presented here aims to identify astrophysical events within the MBTA pipeline single detector triggers by assigning them a false alarm rate.

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