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Noise transients and veto studies in the search for gravitational wave bursts with LIGO SHANTANU DESAI, Pennsylvania State University, FOR THE LIGO SCIENTIFIC COLLABORATION — In November 2005 LIGO started a long science run (called S5) in order to collect one year of coincident data at design sensitivity. This talk will present results from various online and offline tools used to monitor the data quality, sensitivity to astrophysical searches and day-to-day performance of the interferometers. We shall focus on the salient features and identified causes of outlier noise transients that are detected by various algorithms in gravitational wave burst searches. We will also describe methods used to veto noise transients, and present their performance in S5 LIGO burst searches.

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