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Classification of Glitch Waveforms in Gravitational Wave detector characterization RAZIB OBAID, SOMA MUKHERJEE, University of Texas at Brownsville — The Laser Interferometer Gravitational wave Observatory (LIGO) is taking data at its sixth science run (S6). As the sensitivity of the detectors increased, so did the rate of glitch production. Understanding the glitches by studying their parameters has become much more important since production of science data of the highest quality is one of the top priorities. We present here a technique of glitch studies through isolation of waveforms of the glitches and classifying them using multidimensional techniques that would enable us to understand the properties of each glitch and find their linkages with other subsystems in the detector.

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