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GlitchBuster: If there's something strange in your strain data, who you gonna call?[1] NEIL CORNISH, Montana State University, Bozeman — The LIGO/Virgo data are polluted by frequent noise transients, or glitches, which can mimic gravitational wave signals, and bias parameter estimates for real signals. Signals that in-band for tens of seconds or more, such as those from binary neutron stars, have a high probability of competing with one or more glitches. Here I present a wavelet denoising algorithm that can clean the data of glitches in real time, while preserving any gravitational wave signals.

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