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Hunting Gravitational Waves with HTCondor

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This talk summarizes how the LIGO Scientific and Virgo collaborations hunt for gravitational waves - tiny ripples in space-time created by some of the most energetic events in the Universe. We will discuss high-power lasers, extremely precise phase/distance measurements, Einstein's equations, data analysis models and work-flows, largish computing sites, Open Science Grid (OSG), and finally arrive at the answer of how HTCondor's 8.6 release made the admins' lives a lot easier to figure about individual pipelines, computing sites used and computing power requirements.

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