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Searches for Gravitational Waves from Scorpius X-1 with Advanced LIGO

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The low-mass X-ray binary Scorpius X-1 is a promising source of continuous gravitational waves. Its high X-ray luminosity indicates a large rate of accretion, which may power GW emission. A variety of methods have been developed and applied to search for the signal, which presents challenges because of the unknown signal frequency and residual uncertainties in orbital parameters. I will present search results from the first LIGO Observing run and consider the prospects for future searches.

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Classification de Session: Continuous Waves and Stochastic Signals