

Abstract Submitted
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Hunting for MHz gravitational waves with the Fermilab Holometer BRITTANY KAMAI, Vanderbilt University, THE HOLOMETER COLLABORATION COLLABORATION — The highest frequency end of the gravitational wave spectrum remains poorly constrained. Cosmic strings and primordial black holes are potential gravitational waves candidates that could radiate at MHz frequencies. The existence of nearby sources can be tested using the Fermilab Holometer, two nested 40 meter Michelson interferometers. This instrument can achieve strain sensitivity better than $10^{-20}/rt.Hz$ within the 1-10 MHz frequency band. The Holometer is fully operational and has taken long observational campaigns acquiring 100s of hours of science quality data. I will present results of a search for narrow-lined sources and constraints on the stochastic background in the MHz band.

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