

Macro Roundup Article

Headline: [An Enormous Gravity 'Hum' Moves Through the Universe](#)

Article Link: <https://www.quantamagazine.org/an-enormous-gravity-hum-moves-through-the-universe-20230628/>

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Tweet: The shape of space-time is in constant flux due to gravitational waves. The most likely cause is supermassive black holes, but some scientists argue that these waves represent the first empirical observations of cosmic strings.
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Summary: Astronomers have found an extra-low hum rumbling through the universe. The discovery, announced today, shows that extra-large ripples in space-time are constantly squashing and changing the shape of space. These gravitational waves are cousins to the echoes from black hole collisions first picked up by the Laser Interferometer Gravitational-Wave Observatory (LIGO) experiment in 2015. But whereas LIGO's waves might vibrate a few hundred times a second, it might take years or decades for a single one of these gravitational waves to pass by at the speed of light. The finding has opened a wholly new window on the universe, one that promises to reveal previously hidden phenomena such as the cosmic whirling of black holes that have the mass of billions of suns, or possibly even more exotic (and still hypothetical) celestial specters.

Primary Topic: Science

Topics: Cosmos, News article, Science

Permalink: <https://www.edwardconard.com/macro-roundup/the-shape-of-space-time-is-in-constant-flux-due-to-gravitational-waves-the-most-likely-cause-is-supermassive-black-holes-but-some-scientists-argue-that-these-waves-represent-the-first-empirical-observe?view=detail>

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