

# **Best of Last Week –Travel through wormholes, electricity from snow and health risk of dining late, skipping breakfast**

April 22 2019, by Bob Yirka

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It was a big week for physics as a team at the University of Zurich reported on [some thermodynamic magic that enables cooling without energy consumption](#)—they built a device that allowed heat to flow from

a cold source to a warm object without any externally applied power. Also, a trio of researchers, Daniel Jafferis, Ping Gao and Aron Wall showed that [travel through wormholes is possible, but it would be slow](#)—slower than it would take to travel to the other site directly. And two teams of physicists, one from the Santa Fe Institute, the other MIT, took a look at [the discrete-time physics hiding inside of our continuous-time world](#) and found that the Markov process should unfold over a larger space than is typically used in research efforts. Also, a team from the University of Chicago and Fermilab announced that they had invented [a way to trap a mysterious 'dark world' particle at the Large Hadron Collider](#)—by exploiting a potential particle's slightly slower speed.

In space news a team working with NASA's Transiting Exoplanets Survey Satellite reported that they had already [found an Earth-sized planet](#)—the space-based telescope was launched just last year. Also, a team with members from Germany, the U.S. and France announced that [an elusive molecule, the first in the universe, had been detected in space](#)—theory had suggested that 13 billion years ago, the first molecule formed was HeH.

In other news, a team with members from Canada, the U.S., Egypt and Ireland reported on how they had created [a scientific device that creates electricity from snowfall](#)—they call it a snow-based triboelectric nanogenerator. Also, a team of UC Berkeley researchers found that [an anxiety 'epidemic' is brewing on college campuses](#). And a team with members from the University of Houston, Purdue University and Rice University reported on their work [with a high performance solid-state sodium-ion battery](#).

And finally, if you are one of the millions of people across the world who dine late and then skip a morning meal, you might be putting yourself at risk as a team at Botucatu Medical School, Universidade Estadual Paulista found that [a late dinner and no breakfast is a killer](#)

combination—it puts people at great risk of dying from a heart attack.

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