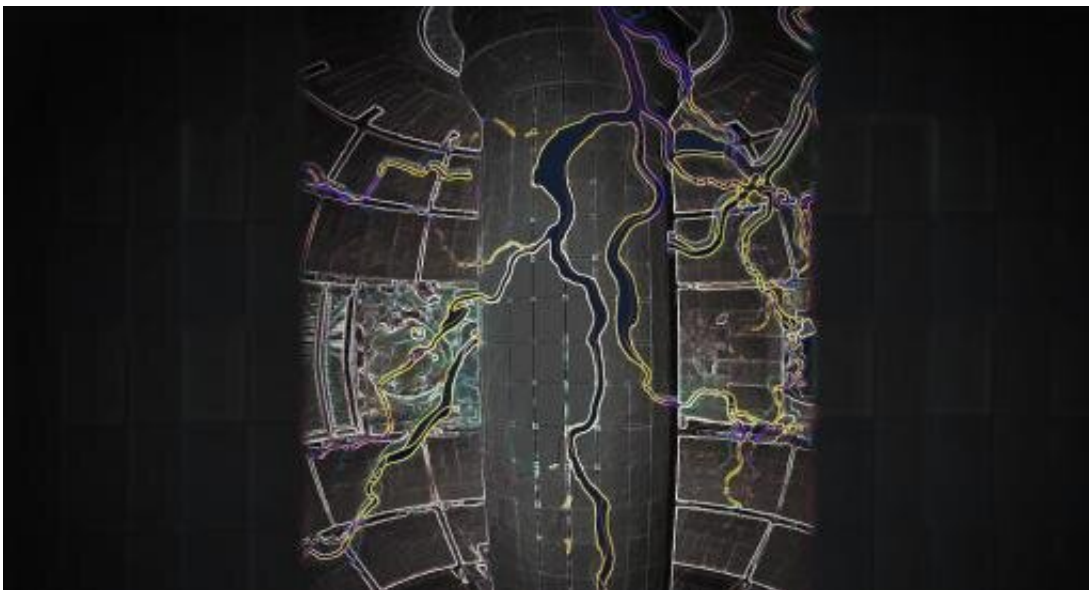


Best of Last Week – New kind of electric current, AI Jesus and the hazards of unventilated busses

September 7 2020, by Bob Yirka



An artist's rendering of electrical current flowing through a tokamak fusion facility. Credit: Elle Starkman

It was a good week for physics research as a team working at Purdue University found [evidence suggesting that the quantum world is even stranger than we thought](#)—they found electrons behaving collectively to form anyons. Also, a team at the University of Hawai'i at Mānoa predicted the location of a novel candidate for mysterious dark energy—so-called generic objects of dark energy. And a team at the

DOE's Princeton Plasma Physics Laboratory found an [unexpected electrical current that could stabilize fusion reactions](#)—a type of current that arises in plasma that has never been seen before.

In technology news, a New Zealand-based startup called Emrod announced the development of [a wireless electric transmission system based on a series of antennas that could provide electricity to remote areas at reduced costs](#). And an international team of researchers [solved a decades-old mystery involving lithium-ion battery storage](#)—how the metal oxides are able to store energy beyond classic electromagnetic storage mechanisms. Also, a combined team with members from Northwestern University and Delft University of Technology [demonstrated a battery-free Game Boy that runs forever](#) using energy harvested from the sun. And entrepreneur, engineer and quantum researcher George Davila Durendal developed [an artificial intelligence system called AI Jesus that is able to write Bible-inspired verse](#)—it was trained on the entire text of the King James Bible.

In other news, a team of researchers working at Flinders University announced [a new surgical procedure that promises relief for people who struggle with CPAP masks](#). And a team at Florida Atlantic University's College of Engineering and Computer Science carried out a study that showed that [face shields and masks with valves are ineffective against the spread of COVID-19](#).

And finally, if you are among the millions who use public transportation and are worried about being infected with COVID-19, you may want to check out the work by an international team of researchers who report that [study of a poorly ventilated Chinese bus offered new evidence of airborne coronavirus spread](#).

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