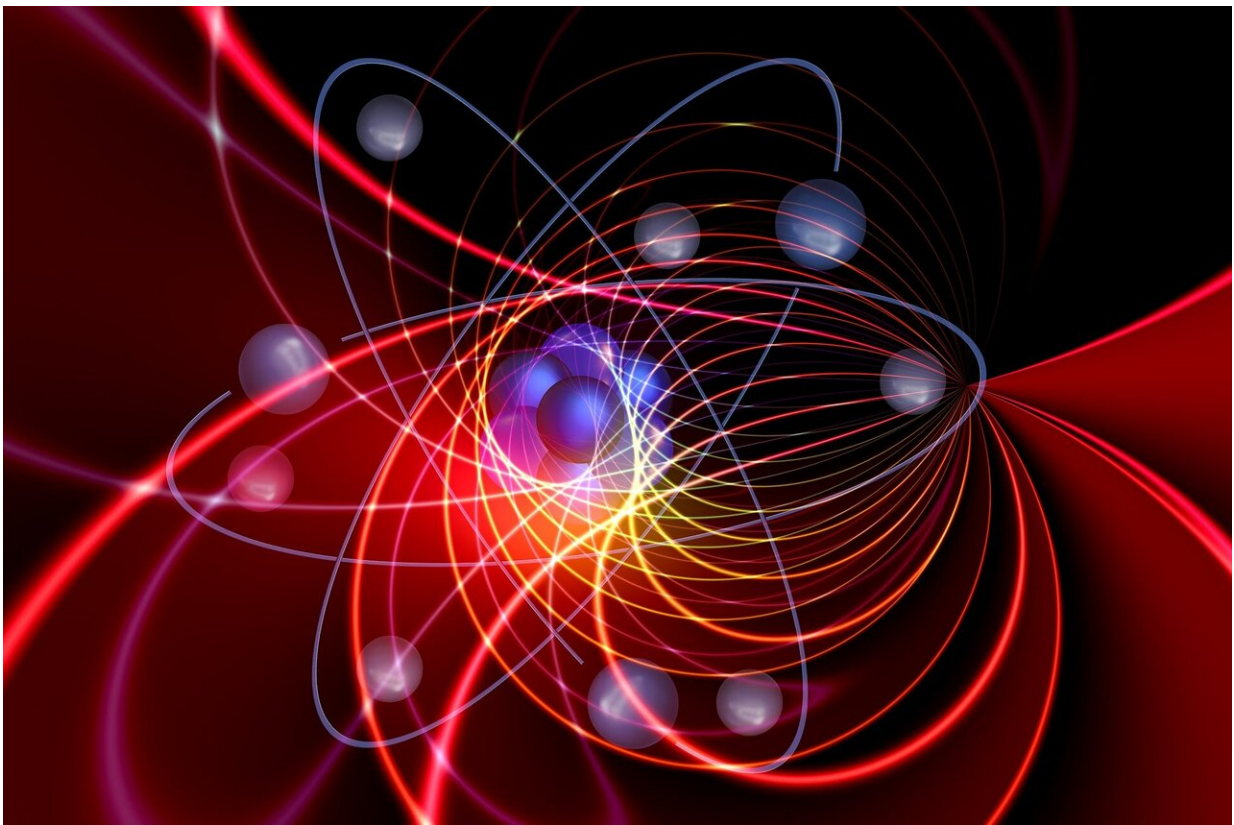


Best of Last Week – Long distance qubit interactions, a zero-emission airplane and a possible cure for baldness

December 31 2019, by Bob Yirka



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It was another good week for physics as a team of researchers from the University of Bristol and a group from the Technical University of

Denmark reported [the first chip-to-chip quantum teleportation](#)—an innovation that could lead to the fabrication of silicon photonic chips. A team at Princeton University announced [a leap for quantum computing—silicon quantum bits that were able to establish a long-distance relationship](#). The new technology allowed for silicon "spin" qubits, to interact, even when spaced relatively far apart on a computer chip.

In technology news, a group at Yonsei University demonstrated [a new deep-learning model for EEG-based emotion recognition](#). The new model overcomes problems with current models that suffer from low-resolution EEG signals. Also, several media outlets published [leaked benchmarks showing the speed of Intel's Tiger Lake microarchitecture](#)—it is reportedly faster than Ice Lake. And researchers at KTH Royal Institute of Technology in Sweden announced that they had developed [a co-simulation platform to verify functional safety concepts in self-driving vehicles](#)—called AD-EYE, it was can reportedly solve problems related to the complexity of automated driving. Also, Rolls-Royce unveiled [a zero-emission aircraft set for 2020](#)—a one-seater electric plane built in collaboration with YASA and Electroflight.

In other news, Mark Mattson with Johns Hopkins University announced in the *New England Journal of Medicine* that [intermittent fasting could be part of a healthy lifestyle](#). A pair of astronomers, Sébastien Lambert with Sorbonne Université and Gianluca Sottili with Università di Roma found evidence that suggested [rotational forces from Earth's spin may spark earthquakes and volcanic eruptions at Mount Etna](#). Also, a team at Lancaster University demonstrated [the coolest LEGO in the universe](#)—a cooled version of the popular toy that was chilled to its lowest possible temperature, revealing special properties that could be useful in the development of quantum computing.

And finally, if you are one of the millions of men around the world

worried about losing your hair, help may be on the way. A team at Icahn School of Medicine announced that [their hair growth finding could make baldness 'optional.'](#)

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