

# **Best of Last Week – No sterile neutrino found, predicting how clothes will look, reducing diabetic organ failure**

November 1 2021, by Bob Yirka

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RGB Image of a customer. Credit: Tiwari & Bhowmick.

It was a good week for space research as a team with members from several institutions in the U.S. and one in China found evidence of what might [be the first planet discovered outside of the Milky Way galaxy](#). Also, an international team of researchers used the Gemini Observatory telescope to [measure the atmosphere of a planet in a stellar system 340 light-years away](#). And a team working at the U.S. Department of Energy's Fermi National Accelerator Laboratory running the MicroBooNE experiment, reported finding [no hint of the theoretical particle called the sterile neutrino](#).

In technology news, a team from the Max Planck Institute of Microstructure Physics, working with a startup called SEMRON GmbH, announced the development of [memcapacitor devices for neuromorphic computing applications](#). Also, a team at TCS Research announced the creation of [a deep-learning technique that can predict how a set of clothes would look on different people](#). And a trio of researchers at Carnegie Mellon University conducted a study in their CyLab that [showed how 'normal' internet browsing looks today](#)—Kyle Crichton, Nicolas Christin and Lorrie Faith Crano found that most users spend most of their time on a small number of websites. Also, a team led by a group at X–Alphabet's 'moonshot factory' created a model that suggested that [a billion people could get safe drinking water from a hypothetical harvesting device](#).

In other news, Clalit Research Institute working with a team at Harvard University conducted the largest real-world study of a third dose of COVID-19 vaccine and [found it effective in reducing severe COVID-19-related outcomes](#). And a team at Sandia National Laboratories developed a device that could [usher in GPS-free navigation](#). The technology is based on a cloud of atoms held under just the right conditions.

And finally, if you have type 2 diabetes, you may want to check out the

work by a combined team from the Steno Diabetes Center Aarhus and Aarhus University—they announced [a new discovery about diabetes that may reduce the risk of organ failure](#).

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