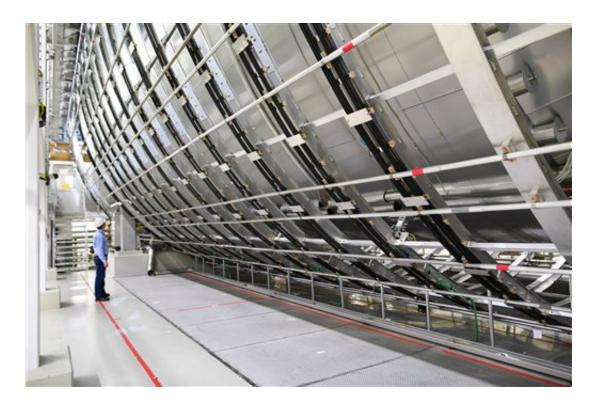


Experiment to weigh 'ghost particles' starts in Germany

October 14 2016



Scientist Thomas Thuemmler, stands next to the main spectrometer of the Karlsruhe Institute for Technology, near Karlsruhe Germany, Friday Oct. 14, 2016. Scientists in Germany have flipped the switch on a $\in 60$ million (US \$66 million) device designed to help determine the mass of the universe's lightest particle. Physicists at the Karlsruhe Institute of Technology hope the 200-metrictons (220 tons) device will narrow down or even pinpoint the actual mass of neutrinos. Doing so would help scientists to better understand the history of the universe. (Uwe Anspach/dpa via AP)



Scientists in Germany have flipped the switch on a 60 million euro (\$66 million) machine designed to help determine the mass of the universe's lightest particle.

The Karlsruhe Tritium Neutrino experiment, or KATRIN, began tests Friday and is expected to begin making actual measurements next year.

Physicists at the Karlsruhe Institute of Technology hope the 200-metricton (220-ton) device will narrow down or even pinpoint the actual mass of <u>neutrinos</u>.

Doing so would help scientists to better understand the history of the universe. Neutrinos are sometimes referred to as "ghost particles" because they are so difficult to detect.

The institute says more than 150 <u>scientists</u> and engineers from five countries are participating in the experiment.





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