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The electron also wobbled up and down in the direction of the magnetic field, a setup similar to a merry-go-round, with an electromagnetic trap as the carousel and the electron as the lone horse.

The setup was sensitive enough to sense when the electron was moving upwards and when its motion was restricted, allowing the electron's energy to be precisely measured. This helped refine measurements of the fine structure constant.

The recalculated value could help improve the design of electric devices and aid scientists in the details of the workings of the universe, the researchers say.

The study was reported in two articles in the July 21 issue of **Physical Review Letters**.

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