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## Headline: Physicists Create Elusive Particles That Remember Their Pasts

**Article Link:** https://www.quantamagazine.org/physicists-create-elusive-particles-that-remember-their-pasts-20230509/

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**Tweet:** Physicists have created objects that retain a memory of their past, a step towards "error-tolerant quantum computers." @QuantaMagazine

**Summary:** Physicists working with the company Quantinuum announced that they had used the company's newly unveiled, next-generation H2 processor to synthesize and manipulate non-abelian anyons in a novel phase of quantum matter. Their work follows a preprint posted last fall in which researchers with Google celebrated the first clear intertwining of non-abelian objects, a proof of concept that information can be stored and manipulated in their shared memory. Together, the experiments flex the growing muscle of quantum devices while offering a potential glimpse into the future of computing: By maintaining nearly indestructible records of their journeys through space and time, non-abelian anyons could offer the most promising platform for building error-tolerant quantum computers.

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