

## Macro Roundup Article

**Headline:** [Physicists Create Elusive Particles That Remember Their Pasts](#)

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

Author(s)	Charlie Wood
Publication	Quanta Magazine
Publication Date	May 10, 2023

**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.

**Primary Topic:** Innovation/Research

**Topics:** Innovation/Research, News article, Productivity, Weekly

**Permalink:** <https://www.edwardconard.com/macro-roundup/physicists-have-created-objects-that-retain-a-memory-of-their-past-a-step-towards-error-tolerant-quantum-computers-quantamagazine?view=detail>

### Featured Image

**Link:** <https://www.edwardconard.com/wp-content/uploads/2023/05/Quanta.png>