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THE EFFECT OF GRAVITY ON ANTIMATTER - THE ALPHA EXPERIMENT

Monday 2 September 2024 09:30 (30 minutes)

Although the gravitational interaction between matter and antimatter has been the subject of theoretical speculation since the discovery of the latter in 1928, only recently the ALPHA experiment at CERN was able to observe, for the first time, the effects of gravity on antimatter atoms, namely on anti-hydrogen. After an introduction of the concept of antimatter, along with its still unresolved mysteries, details about how anti hydrogen is produced at the antimatter factory at CERN will be given. Finally, the measurement of the acceleration of gravity of anti hydrogen atoms falling in the Earth gravitational field will be presented.

Internet talk

No

Is this an abstract from experimental collaboration?

Yes

Name of experiment and experimental site

ALPHA at CERN Antimatter Factory

Is the speaker for that presentation defined?

Yes

Details

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