

## **Anti-hydrogen**

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Slow antihydrogen is produced within Penning trap that is located within a quadrupole Ioffe trap, the latter intended to ultimately confine extremely cold, ground-state antihydrogen atoms. Observed an antihydrogen atom in this configuration resolves a debate about whether positrons and antiprotons can be brought together to form atoms within the divergent magnetic fields of a quadrupole Ioffe trap. The number of detected atoms actually increases when a 400 mK Ioffe trap is turned on.