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Antimatter in relativistic heavy-ion collisions

Monday, 26 May 2025 14:00 (25 minutes)

Recently, anti-hyperhydrogen-4, an antimatter hypernucleus, was discovered in relativistic heavy-ion collisions at the Relativistic Heavy Ion Collider (RHIC) by the Solenoidal Tracker At RHIC (STAR). This is the heaviest antimatter (hyper)nucleus observed. This talk will review the discoveries of multiple antimatter nuclei and hypernuclei and the exploration of matter-antimatter symmetry in heavy-ion collisions over the past 15 years.

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