



復旦大學

Fudan University



复旦大学物理系物质科学报告

Physics Department Colloquium

Antimatter in the Laboratory

(实验室中的反物质物理)

Prof. Mike Charlton

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Abstract: We appear to live in a Universe dominated by matter, though the Laws of Physics predict equal amounts of matter and antimatter at its origin. Antimatter lies at the heart of quantum physics, thus one of science's great puzzles is where did all the antimatter go? This question encapsulates the motivation for undertaking challenging experiments to explore the properties of neutral antimatter; namely antihydrogen.

After introducing the topic of antimatter, and its symmetry with matter, we will review recent advances which have led to the demonstration of the capture of antihydrogen in a magnetic minimum neutral atom trap, and the first physics experiments, including the observation of a resonant quantum transition in the anti-atom.

Time: 2:00pm, Tuesday, May 12, 2015

Location: Physics Building, Room 221B

(Cookies and coffee will be served from 1:30 pm)