Searching for Exotic Physics in a Pin-Head Sized Storage Ring

In every experiment to date, the electron appears to be essentially spherical - its north and its south poles seem exactly the same. In the world's smallest particle physics lab, we are taking a closer look, trying to determine if it is, in fact, a little egg-shaped at the level of $10^{-15}$ femtometers. The out-of-roundness, the electron's so-called Electric Dipole Moment, provides clues to the kinds of particles that might be discovered at monster facilities, such as the Large Hadron Collider.

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April 24, 2012 (Tuesday) at 3:30pm (Refreshments at 3:15pm)
SCI 109, Metcalf Science Center, Boston University
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Hosts: Lee Roberts and Larry Sulak