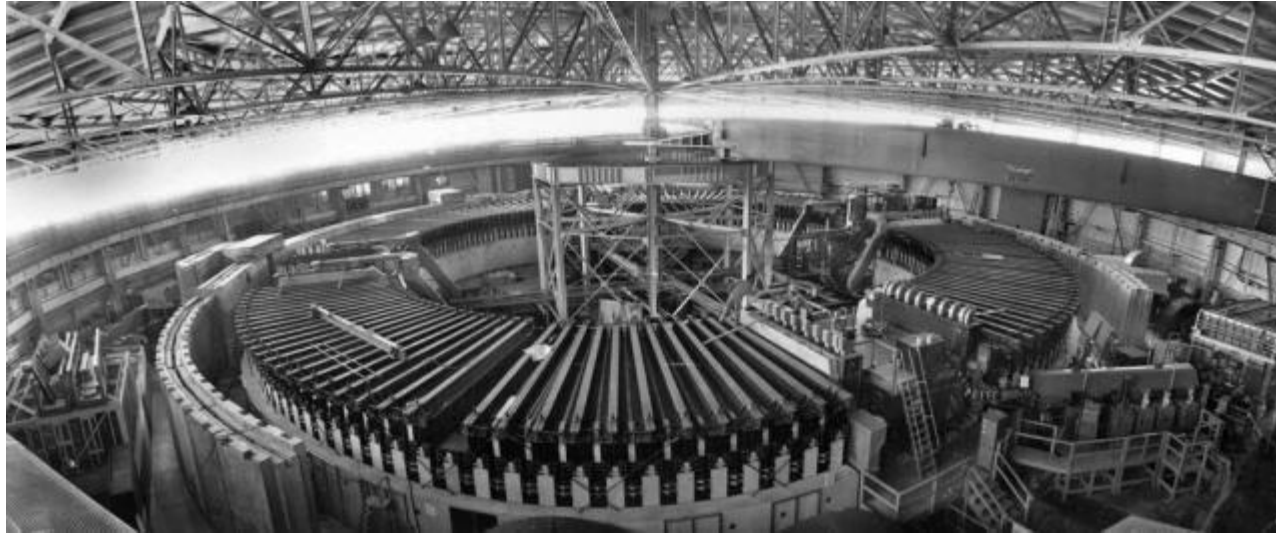


LEAP 2020 Proposal

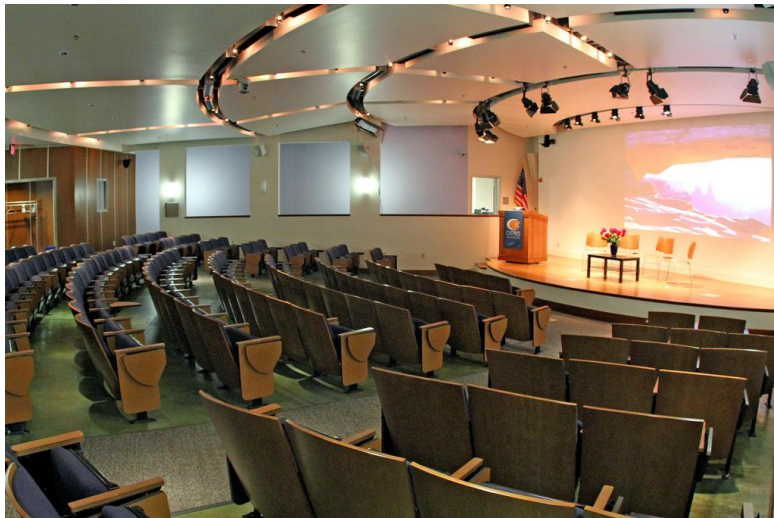
Berkeley CA

Joel Fajans and Jonathan Wurtele

Proposed dates are
early August 2020



The Bevatron, where the antiproton was discovered.



Observation of Antiprotons*

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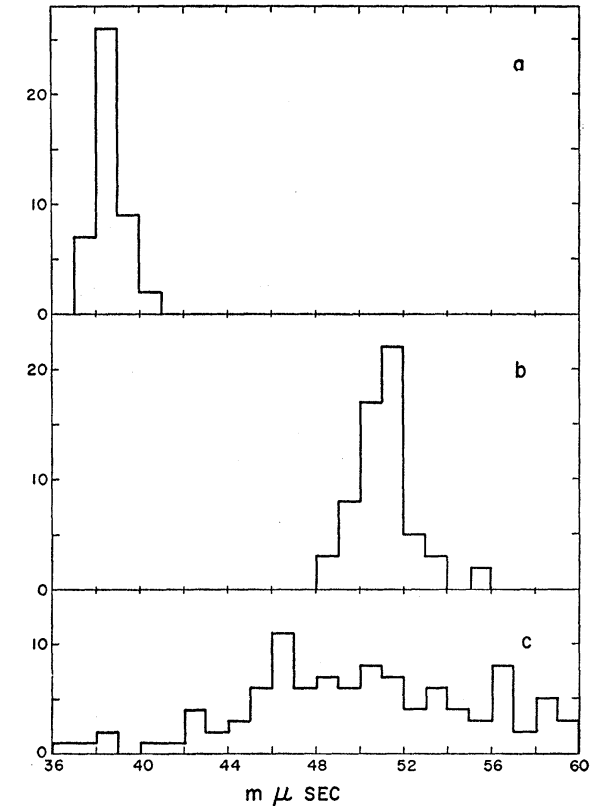


FIG. 3. (a) Histogram of meson flight times used for calibration. (b) Histogram of antiproton flight times. (c) Apparent flight times of a representative group of accidental coincidences. Times of flight are in units of 10^{-9} sec. The ordinates show the number of events in each 10^{-10} -sec intervals.

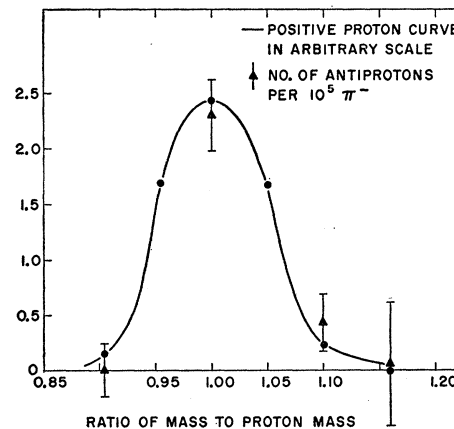


FIG. 4. The solid curve represents the mass resolution of the apparatus as obtained with protons. Also shown are the experimental points obtained with antiprotons.