

Observation of Parity Violation in Omega-minus \rightarrow Lambda + K-minus Decays

Lan-Chun Lu (representing the HyperCP Collaboration)
University of Virginia

The HyperCP experiment at Fermilab has collected the largest sample of hyperon decays in the world. With a data set of over a million Omega-minus \rightarrow Lambda + K-minus decays we have measured the product of $\alpha(\Omega)$. This result indicates that $\alpha(\Omega)$ is small, but non-zero. Prospects for a test of CP symmetry by comparing the alpha parameters in Omega and anti-Omega decays will be discussed.