Abstract for an Invited Paper for the APR07 Meeting of The American Physical Society

Panofsky Prize Talk

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The first evidence and measurement of direct CP violation in the decay of neutral K mesons has been provided by the NA31 experiment at CERN. An introduction to the phenomenology of CP violation in the neutral kaon system will be followed by a review of the experimental technique employed and the results obtained. The amount of direct CP violation found is at the level expected in the Standard Model lately.