

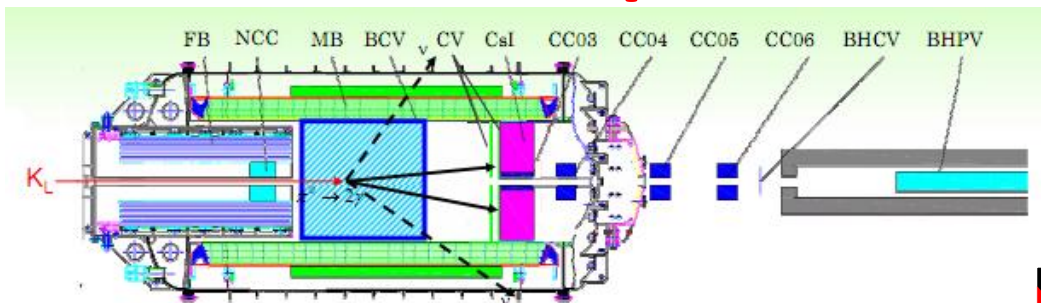
# LEPP Journal Club

Friday, March 18, 2011. 4:00 pm (3:45 refreshments)  
301 Physical Sciences Building



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## The KOTO Experiment at J-PARC



The J-PARC KOTO experiment is designed to measure the branching ratio of the rare decay  $K_L^0 \rightarrow \pi^0 \nu \bar{\nu}$ . This decay is pure, direct CP-violating and its branching ratio has been calculated with less than a percent theoretical uncertainty. A precision measurement will pin down the CP-phase of the KM matrix and tests the Standard Model and beyond. I will report on the past measurements and status of this new experiment.

