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## KEK-B noise experiments

*Thursday 16 December 2010 08:30 (20 minutes)*

Dedicated beam experiments in KEKB with crab cavities with induced noise to study the impact on beam quality, lifetime and luminosity. The observations of beam-beam instability between the sigma and pi modes and simulations to explain this phenomena is presented. Tolerances based on KEKB measurements for the LHC is derived. The first measurement of crab dispersion using orbit differences with and without crabs is compared to the model.

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