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KEK-B Achievements & Crabs

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The implementation of large angle crab crossing using superconducting cavities operating on the TM110 mode. Beam commissioning, operation, cavity availability, reliability and luminosity increase from the crab crossing (purely geometric gain plus gain in beam-beam tune shift). KEKB crab-cavity diagnostics and set-up/tuning/alignment procedures. Frequency, reasons, beam observations, and possible mitigation of crab-cavity trips. Aperture issues. Ramping and leveling. KEKB upgrade plan without crab cavities and the reasons.

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