

# LHC Crab Cavities, KEK Contribution

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<http://twiki.cern.ch/twiki/bin/view/Main/LHCCrabCavities>

- Beam-beam simulations (K. Ohmi)
  - Emittance growth studies, RF curvature,
  - Sychro-Betatron resonance, WP scan...
- Optics Studies (A. Morita)
  - Adiabaticity of voltage ramping
  - Tolerances of optics errors, coupling...
- Cryo-module development
  - Cavity fabrication & treatment (CP-EP)
  - New damping schemes (collaborate with SLAC/LBNL)
  - Novel compact cavities (design, prototypes)
- Impedance effects
  - KEK-B measurements with & w/o CCs
- Crab cavity commissioning