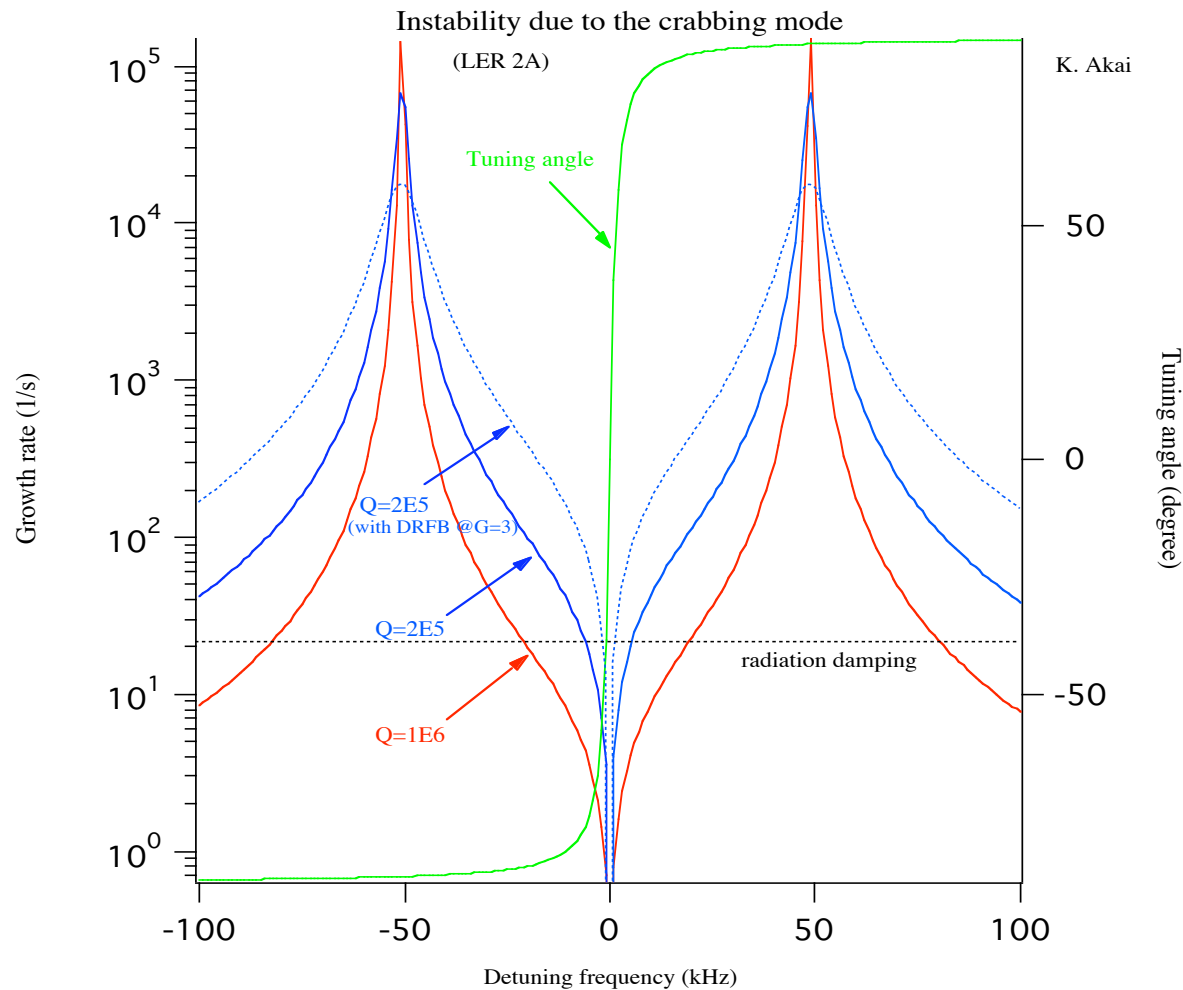


Coupled-bunch instability due to the crabbing mode

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- Lower Q_L and/or direct RF feedback reduces allowed frequency range.
- As far as the crab cavity is operating, growth rate is lower than radiation damping rate even with a large tuning error of ± 30 degrees.
- When the crab cavity is parked away from RF frequency, CBI should be cured by bunch-by-bunch feedback.