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## Experiments of Low Level Control Based on Analog IQ Technique

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### Abstract

Low level control (LLC) system based on IQ technique will be constructed for RF cavities at Shanghai Synchrotron Radiation Facility (SSRF). There are two paths for LLC to go through. One is based on analog IQ, another adopts all digital technique. Some experiments of IQ control loop in our laboratory have been done, which shows that the suppression 20dB of modulation in amplitude and phase and the loop width over 1KHz are achieved.

Key word: IQ technique Amplitude modulation phase modulation Loop width

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