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Klystron Linearizers for PEP-II

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The RF systems in PEP-II use direct and comb loop feedback techniques to minimize the cavity fundamental impedance driving low-mode coupled bunch instabilities. The effectiveness of these techniques are strongly dependent on the linearity and dynamic behavior of the klystron amplifier in the feedback path.

This short talk will summarize the impedance control techniques in PEP-II, and review measurements which highlight the impact of klystron saturation on low mode instabilities. Technical options to linearize the klystron and our specific implementation are described. Results from full power test stand measurements and beam tests are presented.

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