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Operation and performanc of PEP-II LLRF

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The PEP-II Low Level RF systems incorporate multiple feed back loops to control the cavity impedance as well as maintain the operating point regulation. The system incorporates several recording and playback buffers which can be used to both setup and monitor the operating point of the system. In addition, the recording buffers aid in the diagnostics of hardware failures within the system and are recorded at every beam abort. An overview of the PEP-II LLRF system will be discussed. In addition, in depth information regarding both the operational and diagnostic modes of the system will be presented. Examples of both modes of operation will illuminate some of the complexities of operating a large complicated LLRF system as well as demonstrate techniques to solve problems to root cause.

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