

Correlated Measurements of HV power supply ripple and RF jitter: techniques and results

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Various methods of measuring RF amplitude and phase jitter and time correlated DC power supply variations are presented. A simple setup using a 4 channel scope as a digitizer is described. Measurements of the DC power supply variations and correlated RF amplitude and phase jitter of the klystron amplifier and SRF cavity fields for the Canadian Light Source are presented and the results summarized.

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