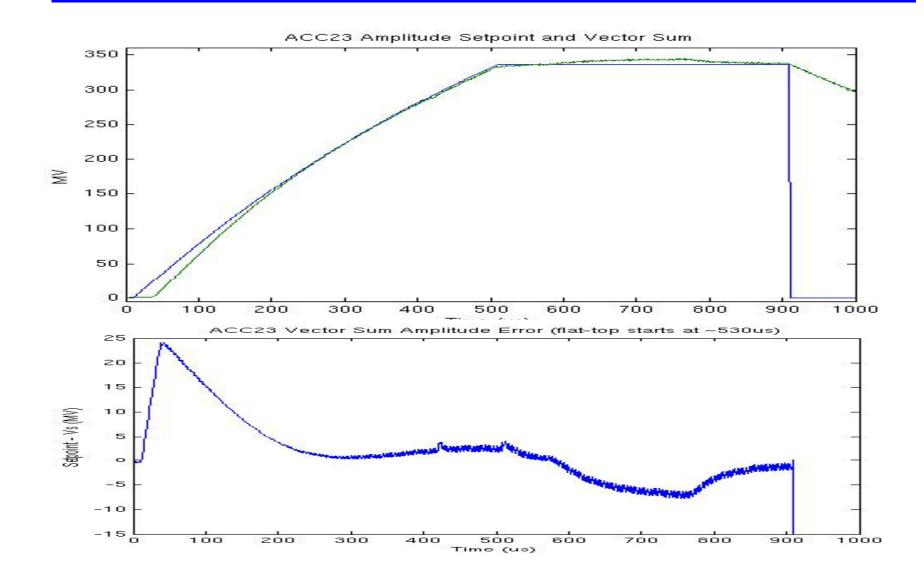
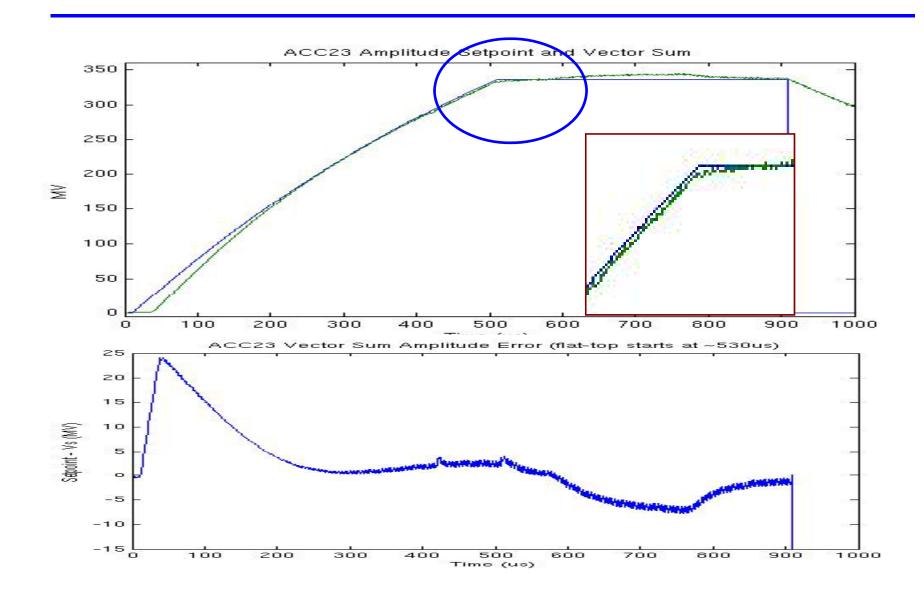
Whole Pulse for ACC5 FB On / AFF Off / No Beam FB On / AFF On / No Beam FB Off / AFF Off / No Beam std of cavity forward amplitude std of cavity forward amplitude std of cavity forward amplitude 0.06 0.05 0.35 0.3 0.05 0.04 0.25 std (MV/m) abs. std (MV/m) 0.04 abs. std (MV/m) 0.03 0.2 0.03 0.15 0.02 abs. 0.02 0.1 0.01 0.01 0.05 00 0 500 1000 1500 2000 500 1000 1500 2000 500 1000 1500 2000 'n time (µs) time (µs) time (us) The signal in the red circle is first flat top, that in blue circle is second flat top. mean of cavity forward amplitude mean of cavity forward amplitude mean of cavity forward amplitude 16 20 20 14 12 15 15 mean (MV/m) mean (MV/m) iean (MV/m) 10 8 10 10 6 4 5 5 2 0 0 500 1000 1500 'n 2000 500 1000 1500 2000 500 1000 1500 2000 time (µs) time (µs) time (µs) 1



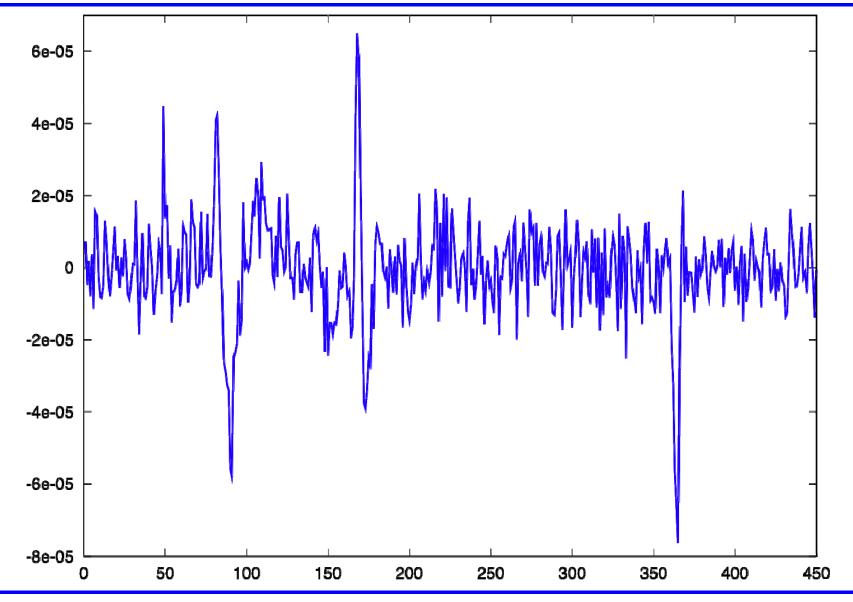
Gustavo Cancelo (presenter) for the ILC-FLASH 9mA studies LLRF group



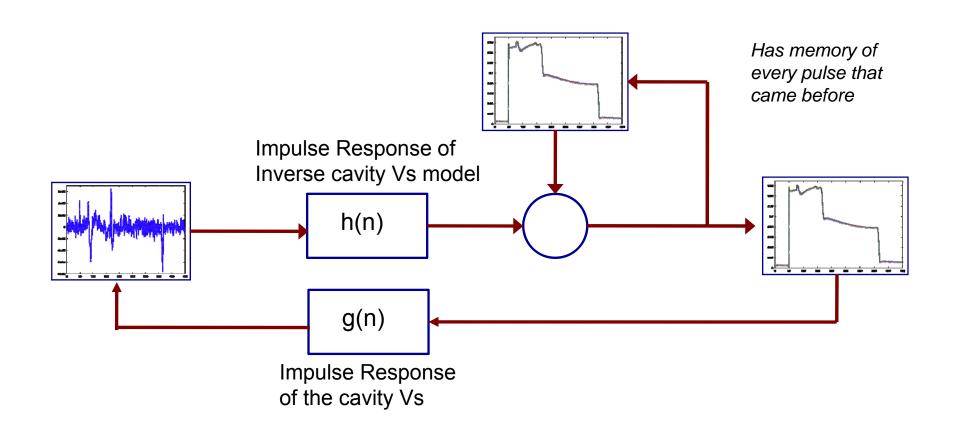
Gustavo Cancelo (presenter) for the ILC-FLASH 9mA studies LLRF group

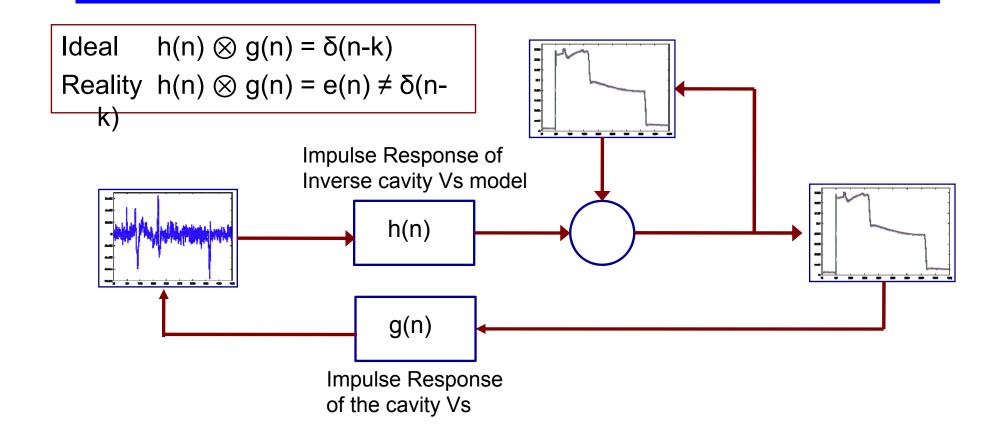
Gustavo Cancelo (presenter) for the ILC-FLASH 9mA studies LLRF group

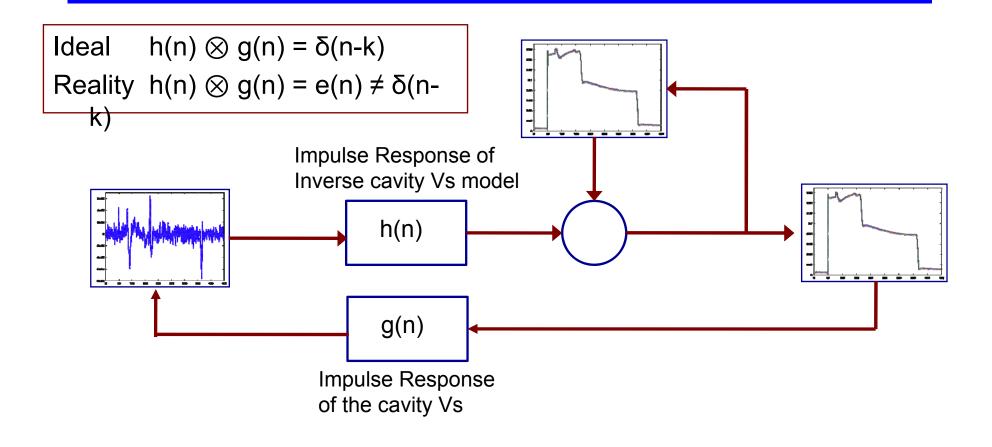
Mean correction applied by the AFF



Gustavo Cancelo (presenter) for the ILC-FLASH 9mA studies LLRF group

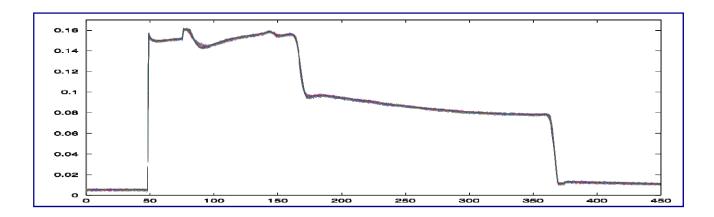






In practice

- Can correct 'slow' errors: h(n) ⊗ g(n) ≈ δ(n-k)
- Cannot correct 'fast' errors (degenerate)



Gustavo Cancelo (presenter) for the ILC-FLASH 9mA studies LLRF group