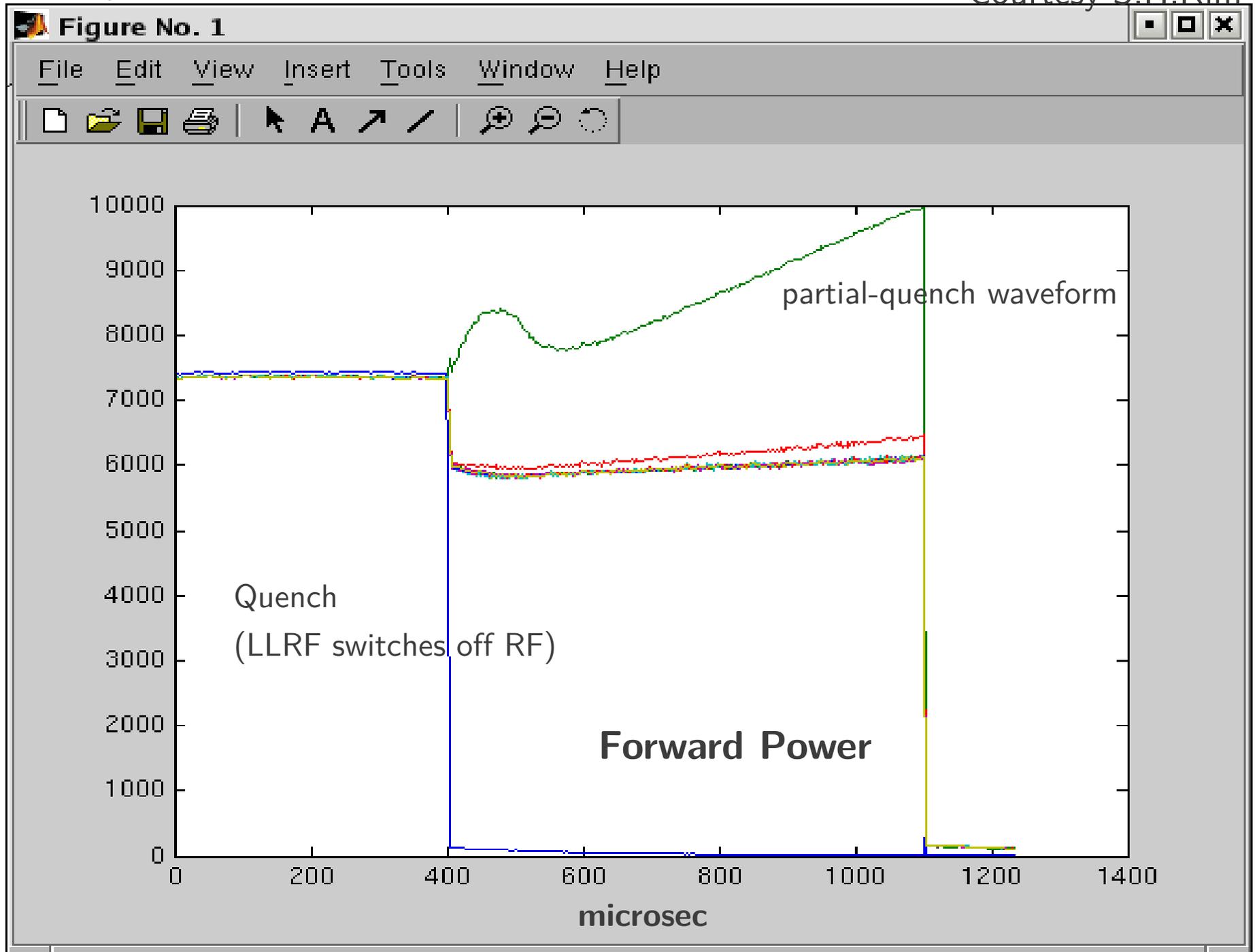


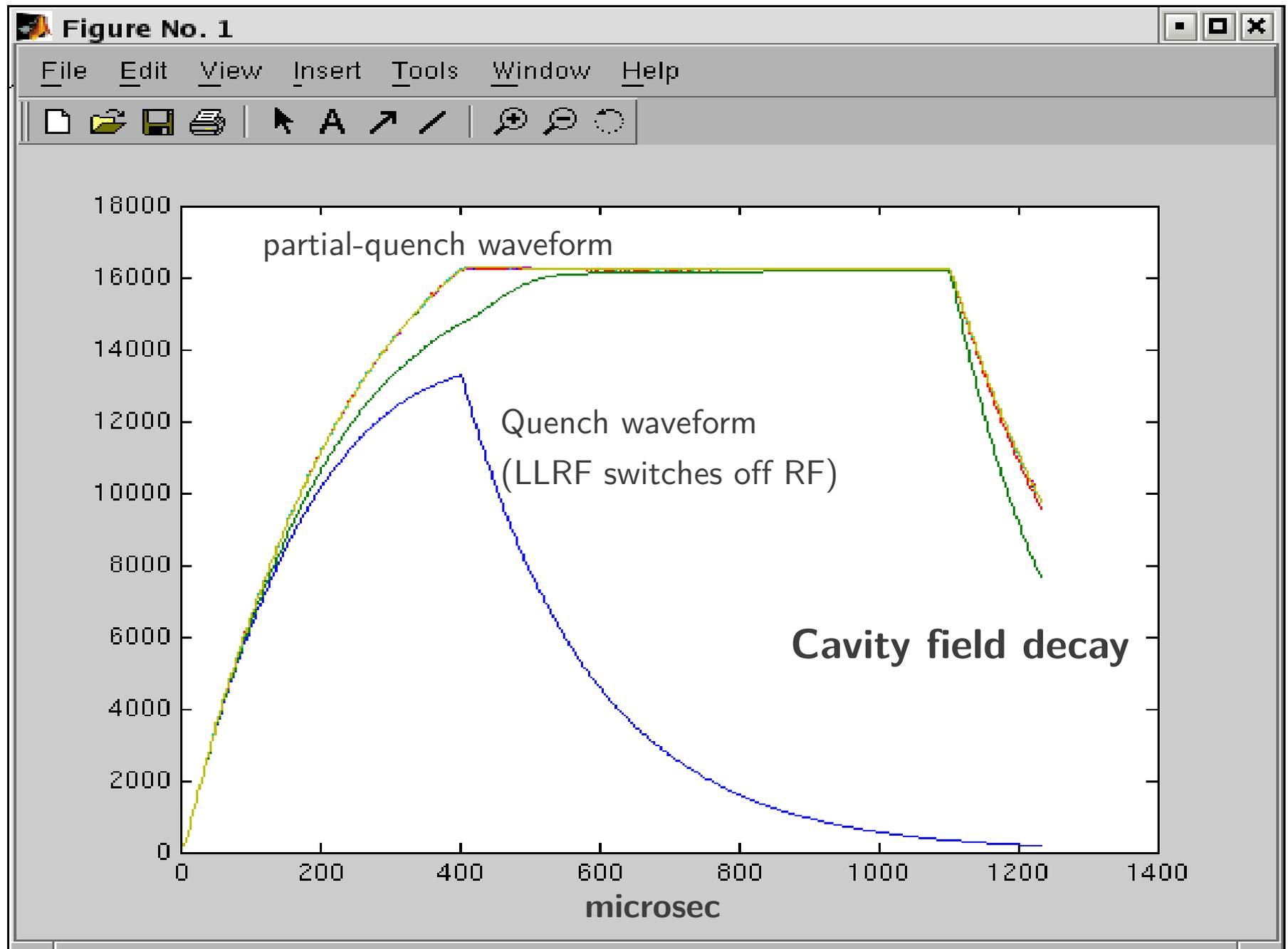
SNS Quench Observations

Courtesy S.H.Kim



SNS Quench Observations

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Observed full quench in a very short time from a few cavities during the commissioning period when we push the limiting gradient.

But mostly the partial quench and slow development is the case in SNS.

When we set up machine for production run, cavity quench is not frequent at all. I would say less than one per month.

the closed loop. It keeps cavity field and phase until RF power limit.

When the RF power touches its limit, It becomes like open loop case, which means cavity field drops and phase deviates further.