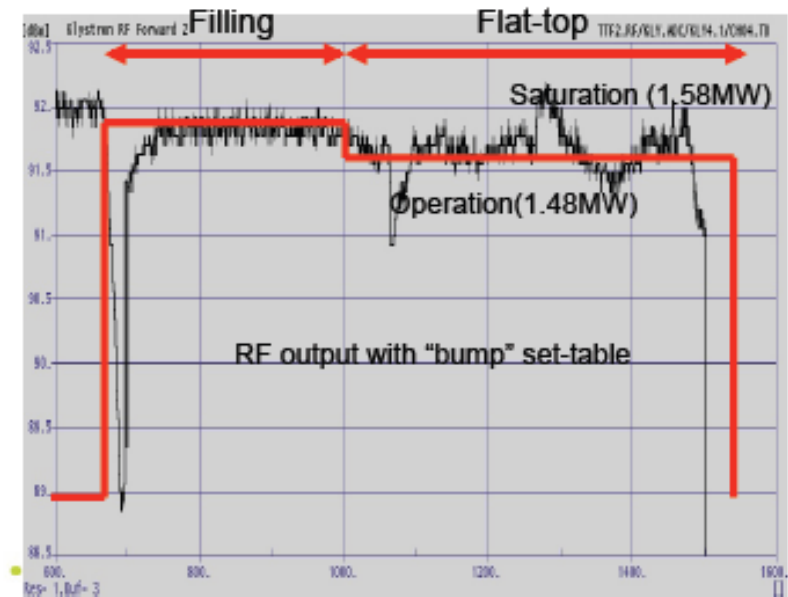
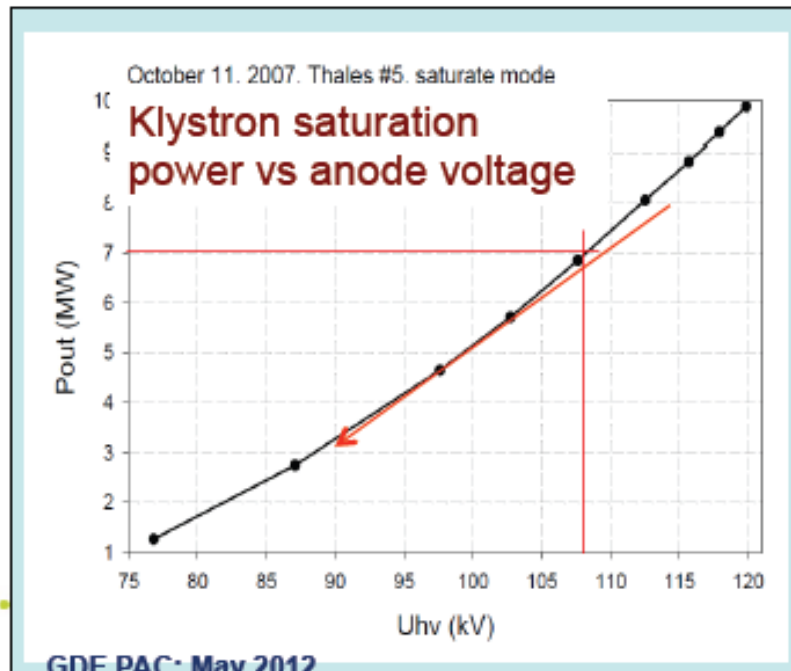


RF overhead study parameters

Shin MICHIZONO

RF operation condition for klystron saturation studies

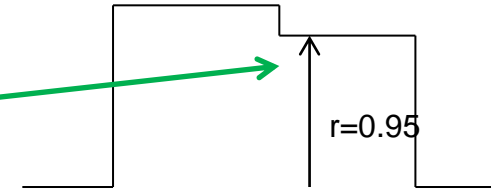
- Under normal 9mA studies conditions, the klystron forward power is not sufficient to put the klystron into saturation
- Saturation point of the klystron was artificially reduced by lowering the HV
- Beam pulse: 4.5 mA / 800us
- Filling time was adjusted to have ~rectangular output.(500us ->660us)
- Operation point during beam-on was about 7% (in power) from saturation.



Parameters for Sep. study

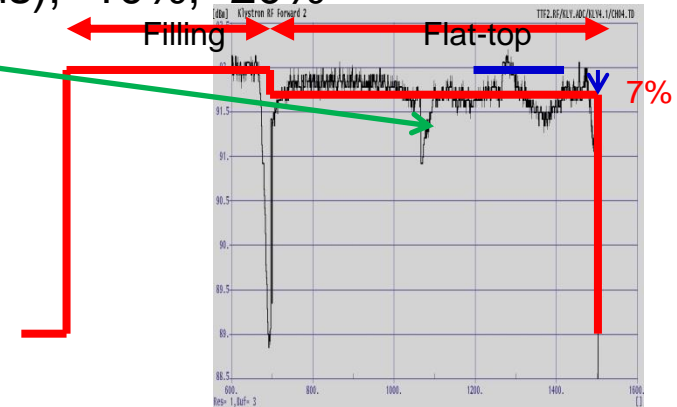
- operation condition

- Beam current: 4.5 mA -> 6 mA
- RF waveform: step ($r \sim 0.95$) -> flat ($r \sim 1$)



- parameters

- Operational margin: -5%, -7%(same to previous), -10%, -20%
- Bump in FF: check the FB performance
- Detuning: piezo-off at one cavity



- system evaluation

- Margin v.s. rf stability (amplitude, phase) (including drift) (for ~30 min.?)
- Margin v.s. beam stability
- Margin v.s. bump suppression
- Margin v.s. detuning effects

