# Two-beam Test Stand Status Report 

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## CTF3 Two-beam Test Stand Prospects

## Versatile facility

- two-beam operation
- high power drive-beam [~30A vs. 100A at CLIC]
- high quality probe-beam [~1.0A like CLIC]
- excellent beam diagnostics, long lever arms
- easy access \& flexibility for future upgrades

Unique test possibilities

- power production \& accelerating structures
- beam kick
- beam dynamics effects
- full CLIC module
- beam-based alignment


## Testing Phases

## Phase 0

- commissioning beam lines, w/o structures


## Phase 1

- tests with PETS in drive beam line


## Phase 2

- PETS in drive beam line
- accelerating structure in probe beam line


## Commissioning

- beam passed through small losses w/o orbit correctors
- moderate debugging
- $5 x$ BPM's
- 1x MTV

To be done


- $\mathrm{R}_{12}$ measurements, BPM-scales
- knobs for position and angle bumps
- knobs for beta-function and waist position
- emittance measurement with quad scan and MTV


## Phase 1 - layout



## Phase 2 - layout



