

# SM18 test program

**DRAFT FOR DISCUSSION**

# SM18 test program

- Low power tests
- Cryo tests
- Vacuum/pressure tests
  
- Timeframe: from mid-November 2017
  
- Location: M7 bunker

*DRAFT for DISCUSSION*

1. Frequency tracking of the two cavities through-out all tests, coupling measurements at warm;
2. Vacuum (cavity and insulation)/pressure testing & controls.
3. Cryogenic cooldown & controls;
4. Tuner validation both mechanical and with RF feedback (low power);
5. LLRF validation (cavity loop and tuner loop) to the extent time allows, already validated in vertical setup on PoP + Tuner;
6. HOM spectrum between the two cavities both at cold and warm
7. Check of the Pickup probe and all needed connectors;
8. Initial RF conditioning with the available 1 kW amplifier, extent of RF conditioning depending on the time available.

*DRAFT for DISCUSSION*