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# Cryogenic Circuit & Heat Loads

*Thursday, 13 December 2012 15:00 (30 minutes)*

2K operation of the SPS BA4 cryogenic system for a crab cavity test in horizontal configuration with two adjacent cavities in a single cryostat. Helium availability, pressure, cryo circuits, safety valves, protection, overall installation effort, cost, time line, maximum heat loads and the impact on the overall SPS/LHC during regular operation is described. Aspects of cryogenic testing in the SM18 test facility and a conceptual design of the final LHC system is outlined.

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**Session Classification:** Cryostat Design II, Couplers & Cryogenics