

FNAL ILC Cavity Status

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LCC ILC SRF Cavity Group 1st Meeting

16.Apr.2013

IHEP-02 Cavity

- IHEP-02 is a low-loss shape large grain 9-cell cavity with full end groups for ILC R&D
- FNAL and IHEP are collaborating to process and test the cavity using FNAL facilities and expertise. Two IHEP staff members (Jiyuan Zhai and Tongxian Zhao) are participating in the work.
- The cavity will be dressed and installed in the *IHEP ILC Test Cryomodule* (containing only one cavity) late this year. The input coupler (two couplers test in KEK last month, reached ILC spec.: 1MW, 1.5ms, 5Hz), tuner and cryomodule are all ready to assemble.

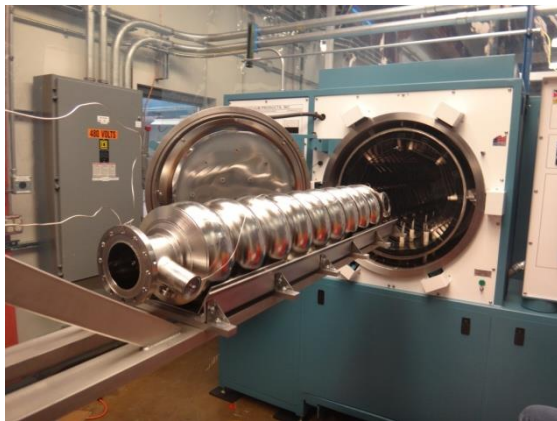
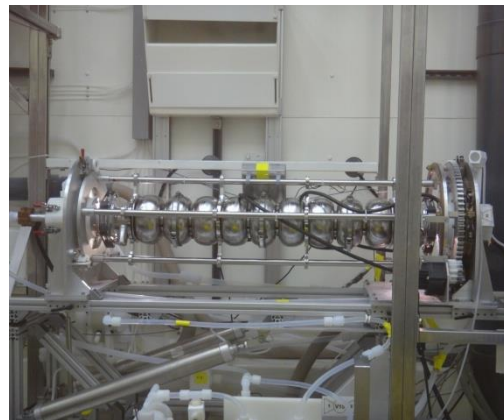
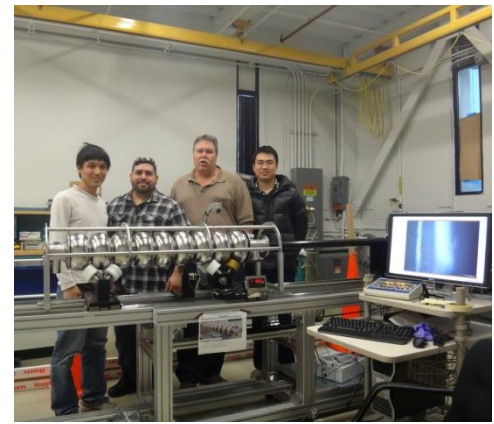
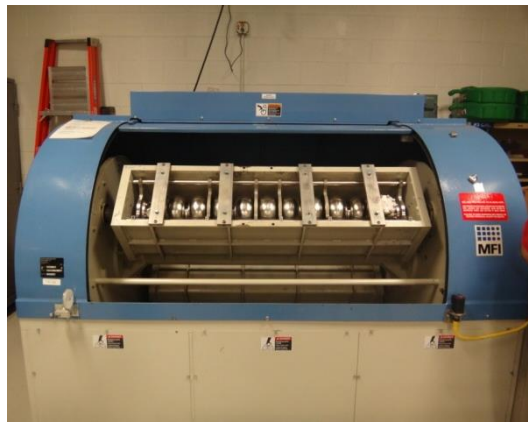
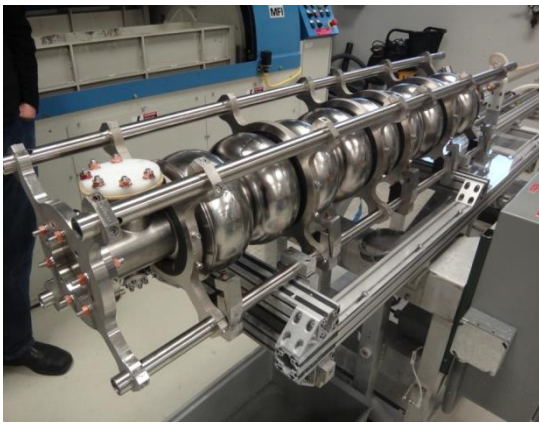


Process Procedures at FNAL

March – April

- Tumbling 200 μm (to mirror surface)
- EP 40 μm
- Heat treatment 800C 3hr
- Pre-tuning
- EP 20 μm
- HPR
- Assembly
- Bake

Vertical test scheduled in May



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