

T T C COLLABORATION MEETING

@

IUAC

DELHI, INDIA

October 20 - 23, 2008

8th Meeting of the Collaboration
now at 52 partners

Many thanks to IUAC RRCAT, BARC and Delhi University for being host to this, our 8th meeting.

Mission of the TTC Meeting

The mission of the TESLA Technology Collaboration is to advance SCRF technology R & D and related accelerator studies across the broad diversity of scientific applications, and to keep open and provide a bridge for communication and sharing of ideas, developments, and testing across associated projects. Besides other activities the TTC organizes regular collaboration meetings where new developments are reported, recent findings are discussed and technical issues are concluded.

Many important things since DESY meeting in January

- **TTC Reports** (http://flash.desy.de/reports_publications/)
 - TTC Report 2008-05: *Final Surface Preparation for Superconducting Cavities*
 - Also TTC Reports 2008-06, 07, 08
- Outstanding research activities/results in the three regions:

Here is a **SMALL** sample only - much more from the Regional Reporters

ASIA Regional Activities

SC-RF Activities in Korea, China, India



A 9-cell Low Loss Cavity at PAL



Prototype copper Cavity at KAERI



352 MHz Cryomodule at KAERI



Six single-cell cavities at IHEP



CBP devise at IHEP



Large grain Nb sheets at PKU



A 9-cell Tesla Cavity at PKU



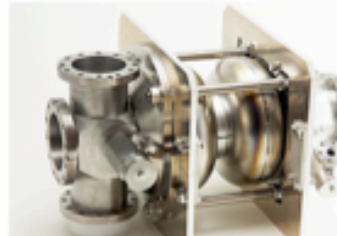
R & D of Cavity fabrication at RRCAT

SC-RF Activities in Japan

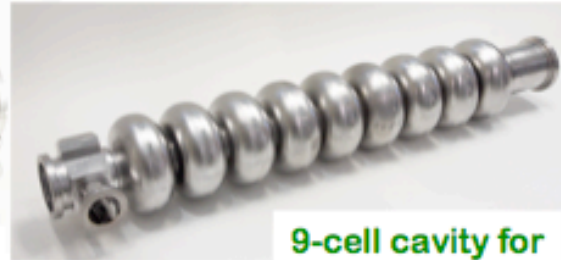
Cryomodule Tests in STF Phase-1.0



New multi-cell cavities



2-cell cavity for
ERL Injector Linac



9-cell cavity for
ERL Main Linac

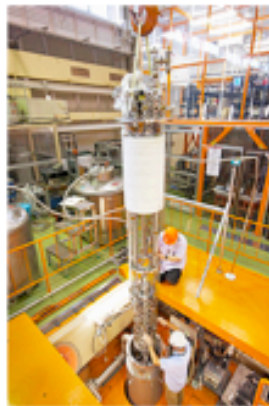


STF-BL#5 cavity

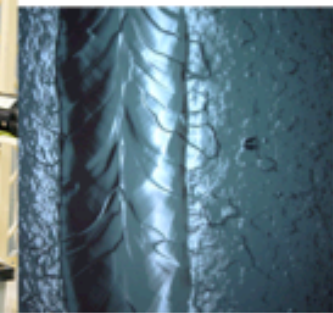
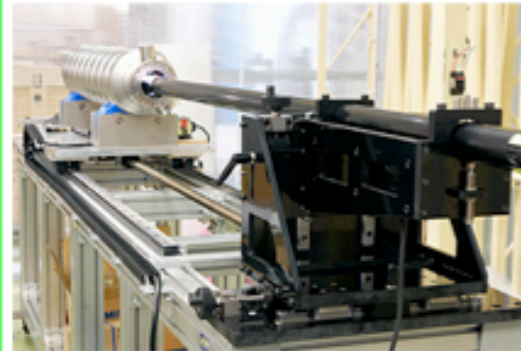


STF-BL#6 cavity

New Vertical Test System at STF



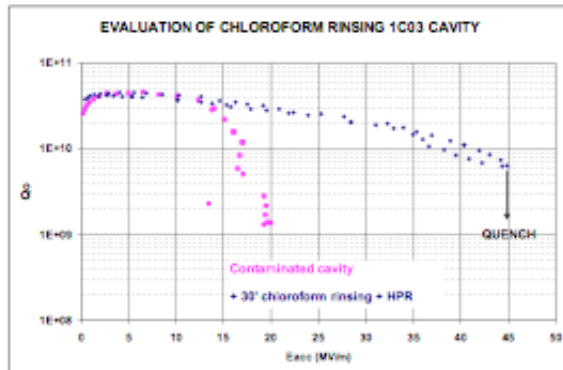
New Surface Inspection System at STF



EUROPE Regional Activities

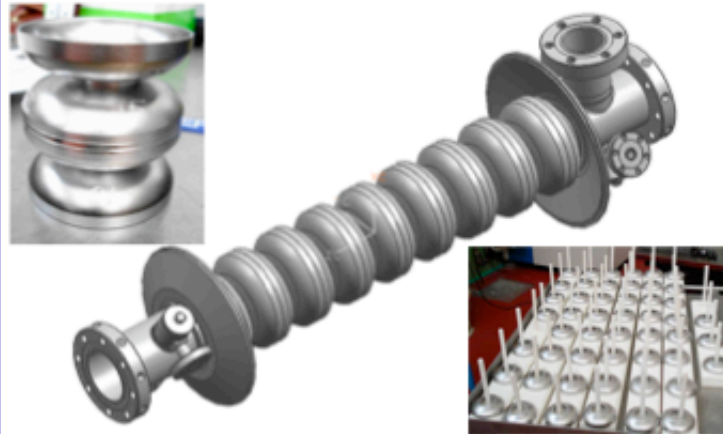
CEA Saclay:

Studies on EP process: Chloroform rinsing, Low voltage EP, R&D on samples



INFN Milano:

- **XFEL 3.9 GHz (3rd harmonic) cavities**



DESY:

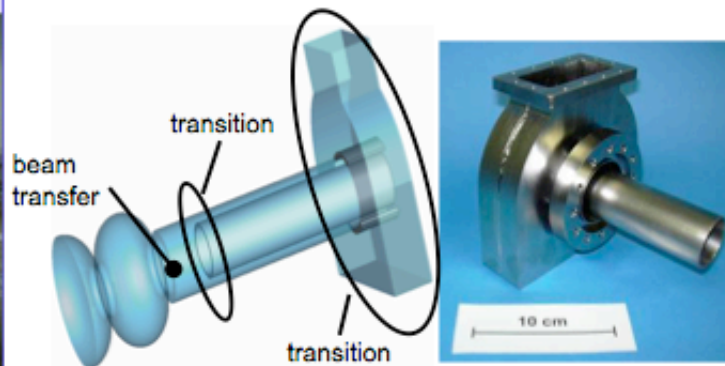
XFEL preparation:

DESY-FNAL tuning system + industrial EP



TH Darmstadt:

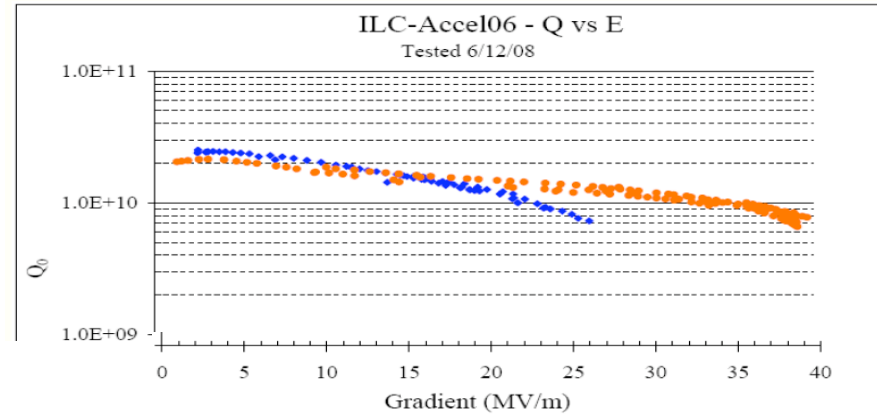
- **Waveguide coupler: 2 kW**
- **Transversal kick: < - 40 dB**



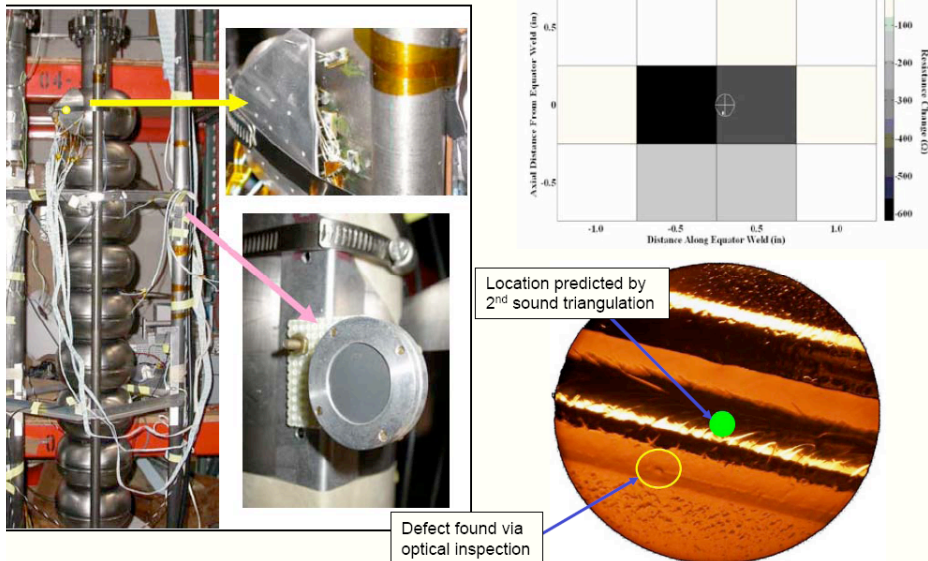
ILC- Americas Regional Activities Samples



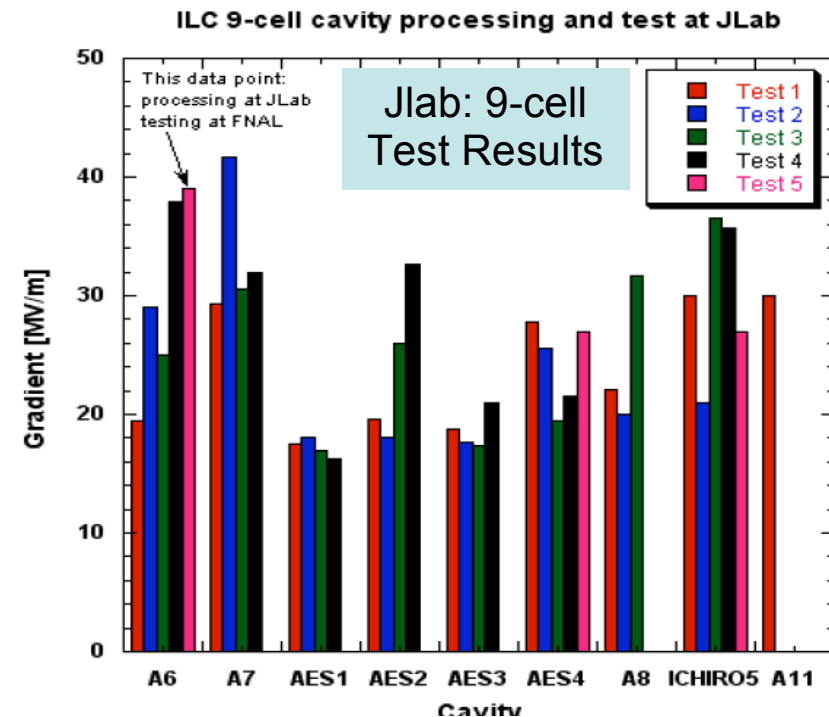
Argonne: 9-cell EP ready to Qualify



Fermilab/Jlab: Cross-calibrate 40 MV/m



Cornell: Quench Detection with 2nd Sound



Reminder of the WG Program, **the heart of our meetings**

WG 1: Status & plans for SC low beta cavities

WG 2: Industrialization of cavities, cavity-strings and modules

WG 3: Status & activities for S0 and S1 of ILC

WG 4: Presentation & discussion of Indian SC RF activities and collaborations

WE CAN ALL LOOK FORWARD TO AN INTERESTING
AND PRODUCTIVE MEETING