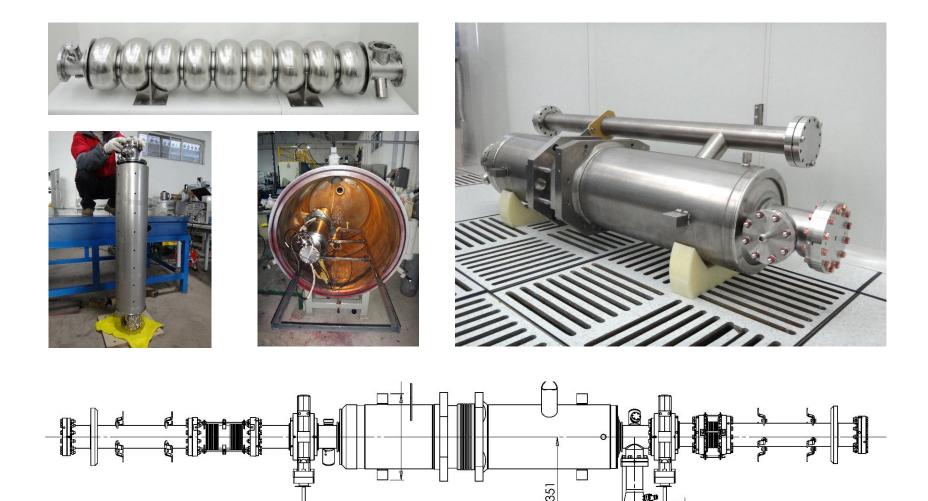
IHEP ILC Cavity Status

Jiyuan Zhai (IHEP) on behalf of the IHEP ILC SRF Team

LCC ILC SRF Cavity Group 3rd Meeting 22.Jan.2014

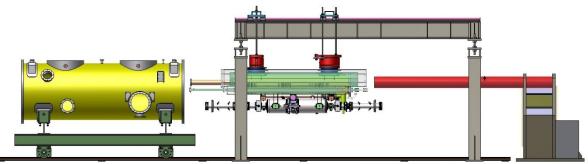
IHEP-02 LL LG Cavity Dressing



3 m long beamline to be assembled in cleanroom

IHEP ILC-TC1 Cryomodule Assembly

- Assemble in the new module assembly hall in Feb-April, 2014
- Horizontal test in 2015







New Cryogenic Plant and Power Source

2K Helium Plant (Air Liquide)

vertical test commissioning in mid 2014 with new Dewar





Cold box and compressor (deliver next week) refrigeration: 1000 W @ 4.5K, liquefaction: 284 L / h Installed 2K pumps (total) 8000 m³/h @ 3100 Pa

1.3 GHz 5 MW Klystron (THALES) and Marx Modulator

• funding approved in end 2014, plan to deliver in early 2015

Cavity Fabrication

• IHEP-03 FG TESLA-like-shape Cavity

IHEP-KEK collaboration

- End groups in fabrication
- Cavity EBW to be done in March





Dumbbells frequencies too high, will do reshape again

FG TESLA-shape Cavity

- TESLA 9-cell cavity with full end groups
- Pressing and trimming jigs, EBW fixtures in fabrication
- In house machining and welding, processing and vertical test (but no EP facility and qualified HPR yet)

Thank you