Update at Peking University

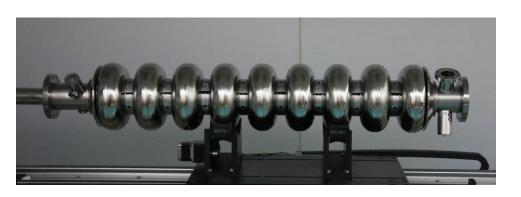
Jiankui Hao & Kexin Liu

Institute of Heavy Ion Physics Peking University, Beijing 100871

2nd LCC ILC SRF Cavity Group Meeting 2013/11/06

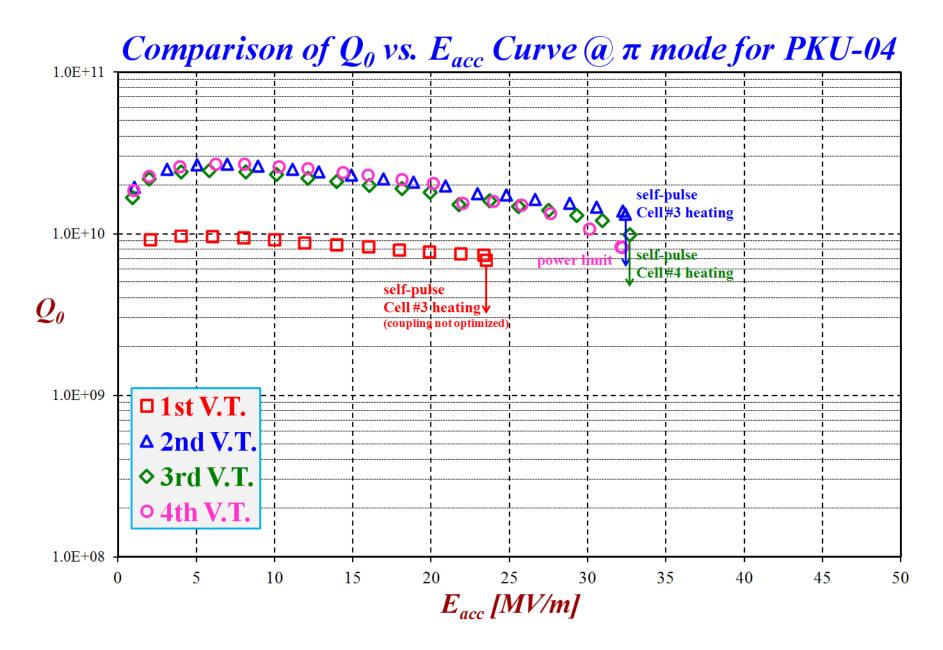
Large grain 9-cell cavity PKU4

Vertical tests: Collaboration with KEK



- 1st test
 - Pre-EP&EP (120 μm)
 - 750 °C annealing: 3 hours
 - Field flatness tuning
 - Final EP $(5 \mu m)$
 - HPR 6 hours
 - Baking at 140 C: 48 hours

- 2nd test
 - Local grinding
 - EP 20 μm
 - degreasing, HPR
- 3rd test
 - Local grinding
 - EP 20 μ m
 - degreasing, HPR
- 4th test
 - Local grinding
 - EP 20 μ m
 - 2nd annealing
 - EP 5 μ m
 - degreasing, HPR



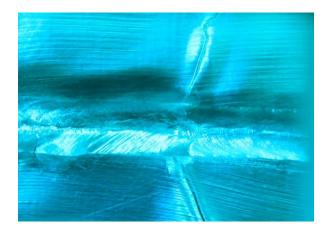
KEK-PKU Collaboration

Large grain single cell 1.5 GHz cavity

(Collaboration of OSTEC, PKU and Jlab)

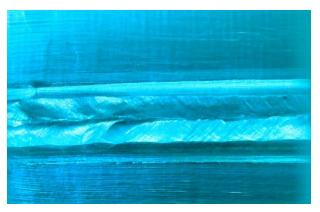


EBW finished at OSTEC in July 2013



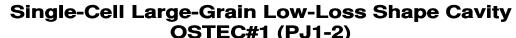
Processing and test at JLab

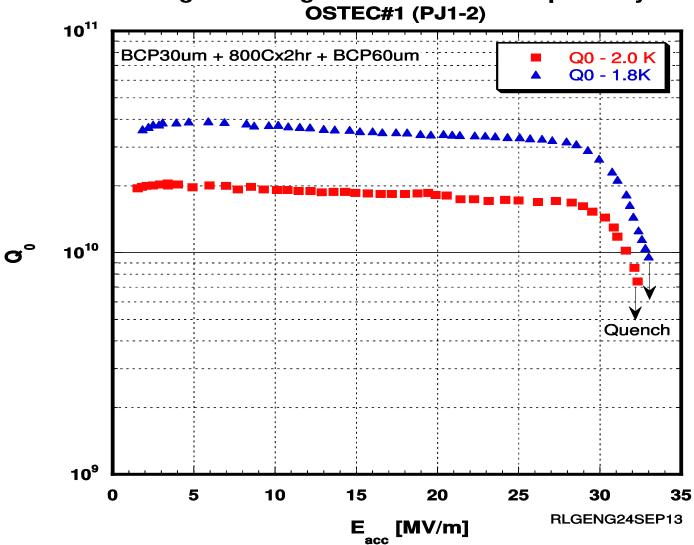
- 1st test
 - Bulk BCP etcing: ~30 um
 - Ultrasonic cleaning 15 min
 - 800°C x 2hr
 - HPR
- 2nd test
 - BCP: 60 um
 - Ultrasonic cleaning (no detergent)
 - HPR
- Next: bake



Optical check at PKU

2nd RF Test





3rd RF Test

(cavity kept under vacuum since second test)

