

Cavity & Cavity Integration; recent KEK activities

(1) Slide jack tuner piezo response is in measurement in room temperature.

(Since it has unstable response in 2K state.)

Piezo up/down and its bellows expansions/contractions are measured by changing bellows tension and with support slider clamp-down/free.

(2) Process of DESY-design TTF-V coupler from LAL was started with short pulse,

20 μ s pulse width : 1 MW

(3) MHI-06 cavity were vertical tested in December 2008, January 2009.

MHI-06 : no cavity mag-shield, cryostat mag-shield: $R_s=10.3\text{n}\Omega$

cavity mag-shield, no cryostat mag-shield: $R_s=13.2\text{n}\Omega$

cavity mag-shield, and cryostat mag-shield: $R_s=8.3\text{n}\Omega$

(4) MHI-05 cavity was 50 μ m EP removal and will be vertical tested again on Feb. 26.

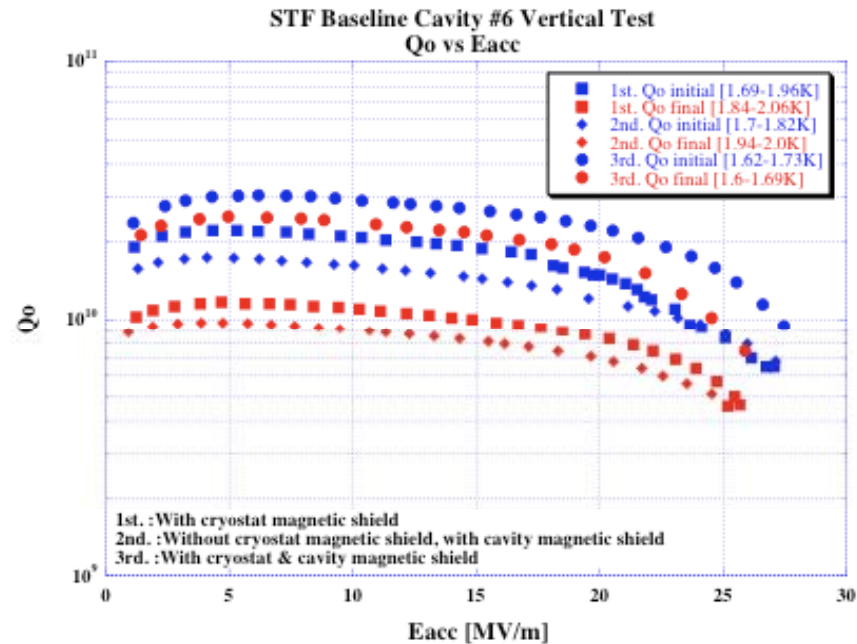
Kyoto-camera indicates ; there are still small scratch traces on Iris

by EP-electrode pulling-out at Nomura, before this EP.

* STF-EP has vertical insertion/pulling-out, so scratch accident is easily avoided.

** MHI-05, MHI-06 : both 27MV/m, FE-limited

MHI-06 vertical test
with/without cavity
magnetic shield.



Q difference between
1st power rise and
final power rise
seems to be mag-field
capture at quench.

