

Cavity status; recent KEK activities

(1) STF CM-1 cavities are;

MHI-014	36.6MV/m	for CM-1 ILC cryomodule (3-rd VT)	
MHI-015	35.7MV/m	for CM-1 ILC cryomodule (4-th VT)	
MHI-016	33.8MV/m	for CM-1 ILC cryomodule (2-nd VT)	
MHI-017	38.4MV/m	for CM-1 ILC cryomodule (1-st VT)	
MHI-018	36.2MV/m	for CM-1 ILC cryomodule (4-th VT)	←
MHI-019	37.0MV/m	for CM-1 ILC cryomodule (2-nd VT)	
MHI-020	35.1MV/m	for CM-1 ILC cryomodule (3-rd VT)	←
MHI-021	38.9MV/m	for CM-1 ILC cryomodule (1-st VT)	
MHI-022	35.8MV/m	for CM-1 ILC cryomodule (2-nd VT)	←

New results
since last SO meeting.

They all are under jacketing with HPV qualification.
The next 4 cavities for CM-2a are under fabrication.

(2) New bender/KEK cavities/R&D cavities;

TOS-02(w/o HOM): 1-st : 31.2MV/m, 2-nd :32.7MV/m, 3-rd :36MV/m ←

HIT-02(with HOM): 1-st : 35.2MV/m, 2-nd :**40.9MV/m**

KEK-00(w/o HOM): 1-st : 26MV/m, 2-nd :29MV/m, 3-rd :24MV/m

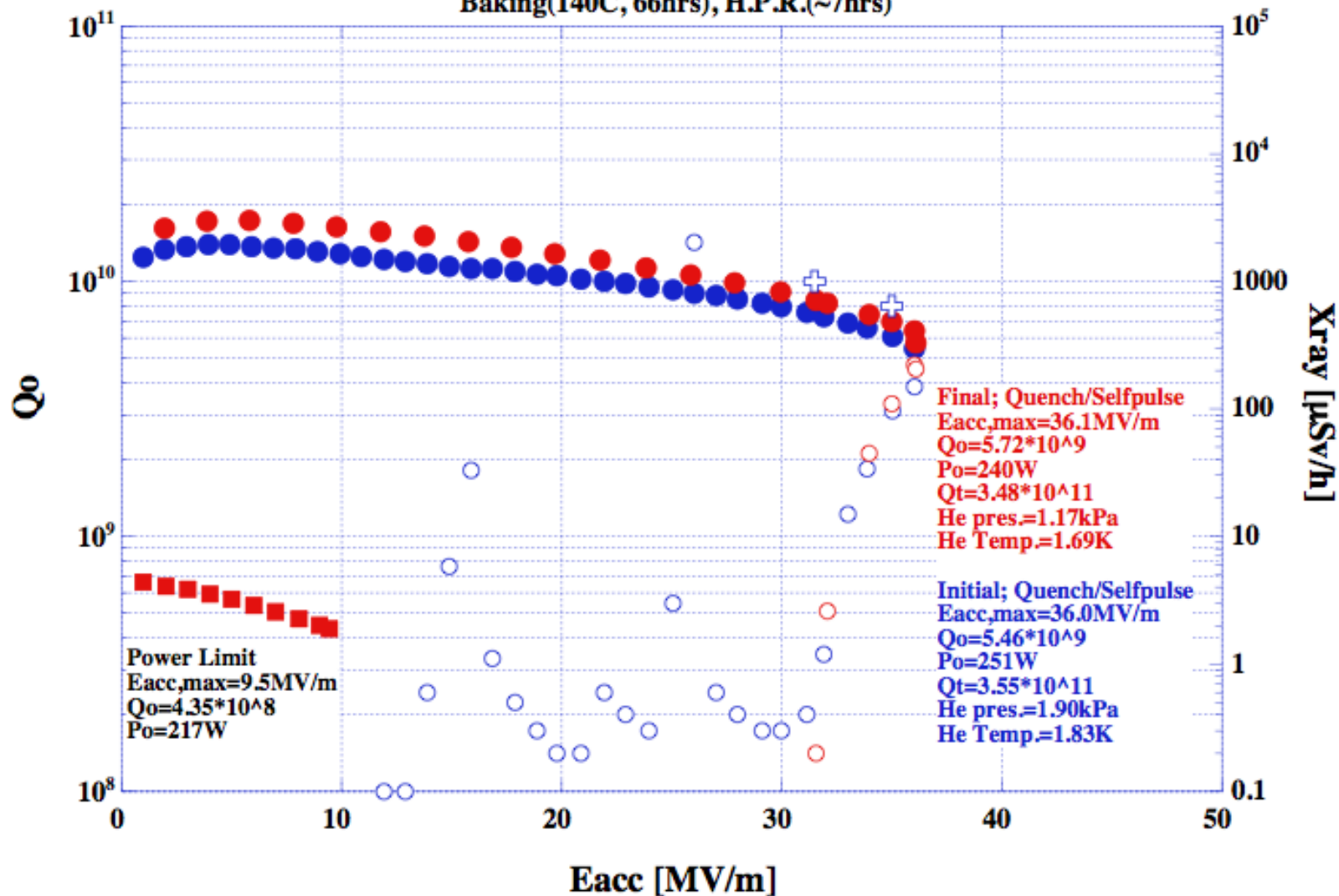
KEK-01(with HOM): under fabrication

MHI-C(with HOM): 1-st : 36.1MV/m ←

- Qo pi-mode initial [1.72-1.83K]
- Qo pi-mode final [1.29-1.69K]
- Qo pi-mode [4.2K]
- + ILC spec.

- X-ray pi-initial
- X-ray pi-final

MHI C 1st. Vertical Test 11/29/2012
 EP-II(5μm), Water flow(1.5hrs), FM_20 2% (50C,15min),
 Baking(140C, 66hrs), H.P.R.(~7hrs)



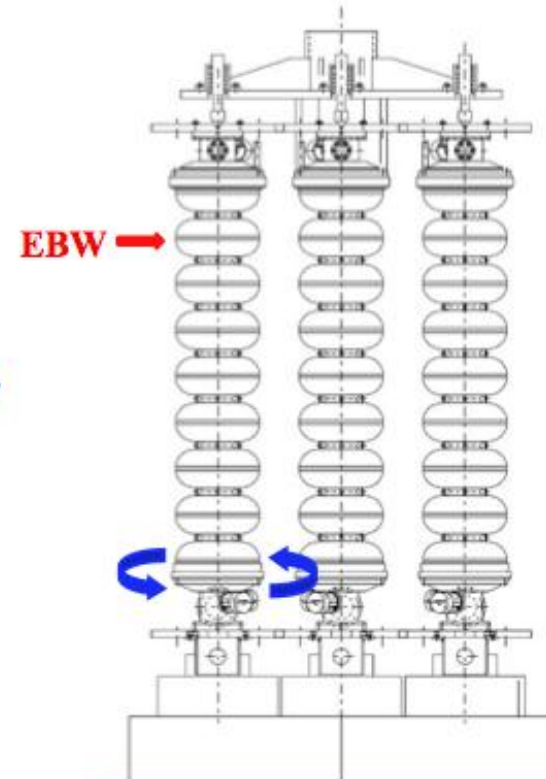
2-4 Welding in succession (MHI-C)

- Cavity is assembled and welded by vertical position.
- 9 seams of equator are welded in one batch.

Slide from TTC2012(JLab)



1 cavity / 1 batch



4 cavities / 1 batch