2009.10.27: Hayano

Cavity status; recent KEK activities

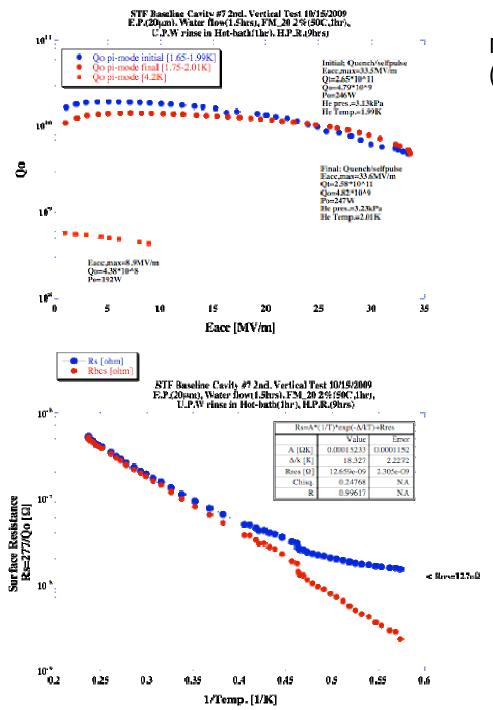
- (1) MHI-07 was vertical tested on Oct. 15.
 - → 33MV/m, stopped by field emission and quench.

 Heating at #9cell equator and strong radiation observed.
- (2) AES-003 cavity was treated by guided repair and 50um EP, degreaser rinse, HPR. It is in transporting back to FNAL, now in Narita for custom.

(3) MHI-08 cavity was treated by guided repair on #2cell equator. It will be tested on Oct. 29, in this week.

^{*}MHI-05,06,07,08,09 are S1G candidates.



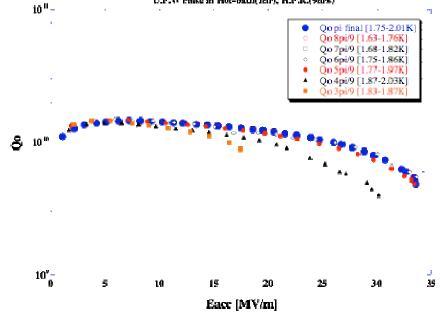


MHI-07 cavity : 2nd VT (20μm EP + Degreaser (with U.S.))

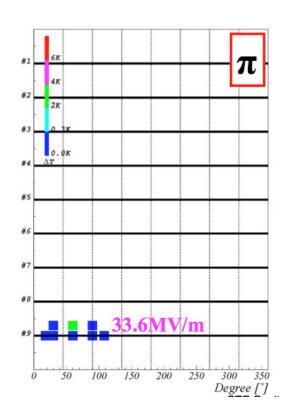
Final power rise Max: 33MV/m strong field emission

MHI-07

STF Baseline Cavity #7 2ad. Vertical Test 10/L5/2049 E.P.(20µnt), Water flow(1.5hrs), FM_20 2% (50C,1hr), U.P.W cinse in Hot-bath(1hr), H.P.R.(9hrs)

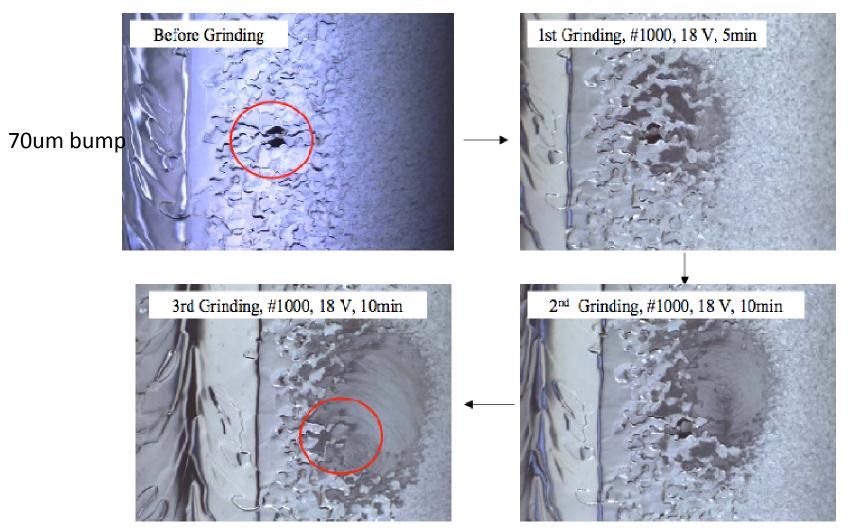


	Cell 13c9[MW/m]	Cell 2&B[MWm]	Cell 38:7[MV/m]	Cell 4&6[MV/ms]	Cell 5[MW/m]	Comment
≖ Initial	33.47	33.47	33.47	33,47	13.47	Radiation Limit : Beat@9cell Qu=4.7989, Pu=246W Xruy over range
Final	33.59	33.59	33.59	33.59	33.59	Radiation Limit : Reas®9cell Qu=482E9, Pu=247W Xruy over range
格尔 ·罗	33.32	29.65	21.99	12.32	0	Quench beli pulse : Heat#9vell Qu=5.51E9, Pu=10MW X-ray 4.38mSwh
7979	34.19	18.12	6.84	26.33	36.58	Quench belfpulse : Heat#9vell Qu=5.78K9, Pu=1145W X-ray 0.6tar@wh
Karl 🗷	33.67	6	33.67	73.67	6	Quench balfpulse : Heate 9cell Que5.42E9, Pu=1.36W X-ray 0.62mSwh
57/9	33.51	22.79	39.54	6.76	42.56	Ouenth Self pulse : Eeste? See Ou=482 E9, Pu=191 W X-ray 0.23mSy/h
45/5	30.14	39.48	17.18	43.70	6	Power Limit: No heat Qu=3.96E9, Pu=260W X-ray 0.55mSwh
37/9	17.45	34.90	17.45	17.45	34.90	Quenth & ffuse : Heat 6 5 rell
Paccymax	34.2	39.5	39.5	43.7	42.6	Avg. 39.6MY/m

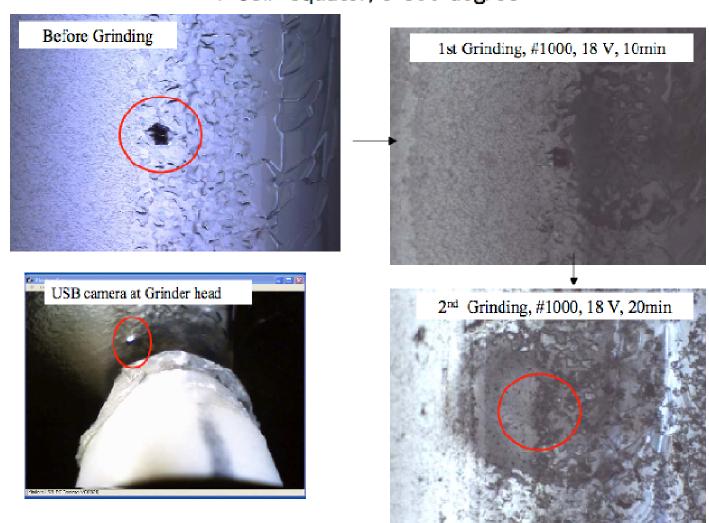


limited by #9cell

1-cell equator, t=200 degree

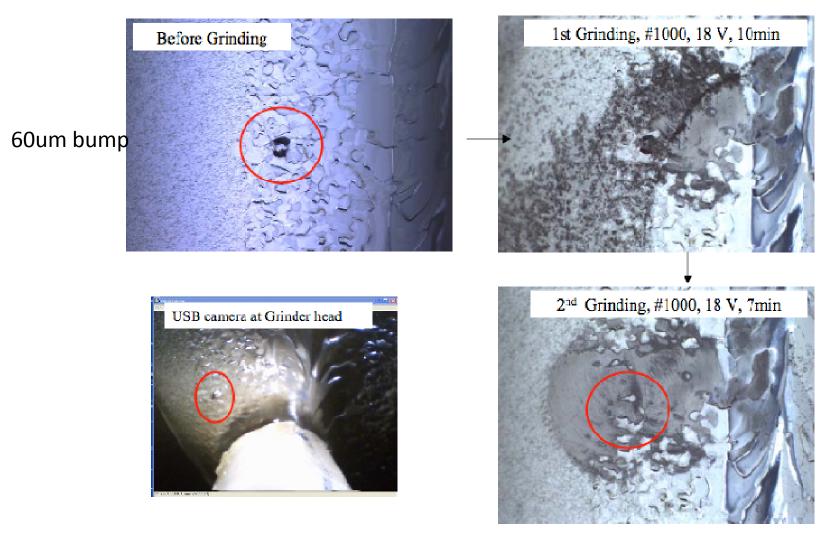


4-cell equator, t=306 degree



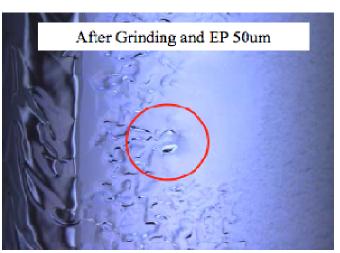
40um?? bump

5-cell equator, t=187 degree

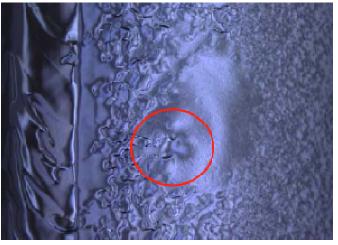


1-cell equator, t=200 deg.



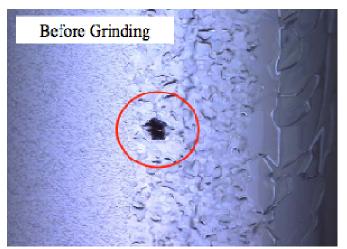


bright image



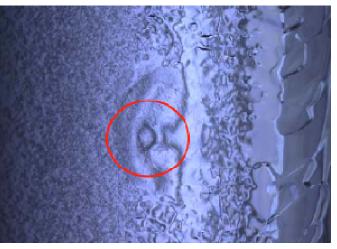
dark image

4-cell equator, t=306 deg.





bright image



dark image

5-cell equator, t=187 deg.





bright image



dark image

Iris repairs were done only heavy scratch

Example: #1-#2iris t=106deg.

