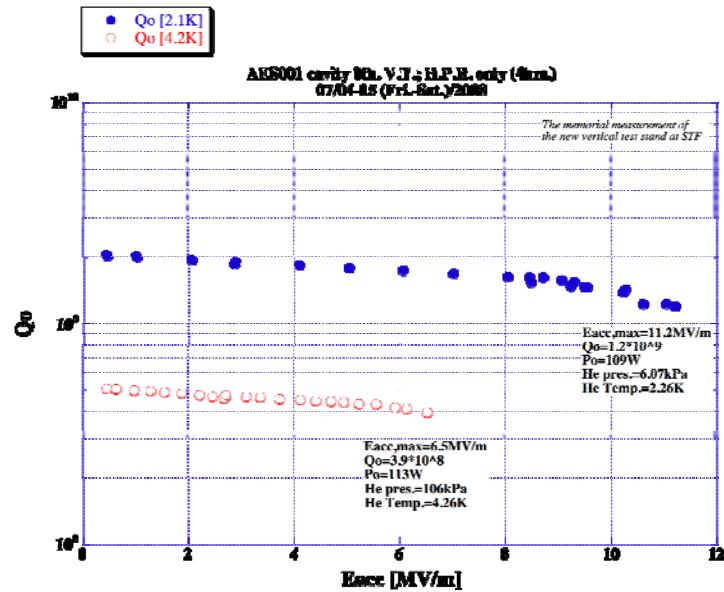


STF Status report for ILC cavity meeting

H. Hayano 08.12.2008

STF Vertical Test Stand Commissioning 07.04.2008 using AES001 FNAL cavity



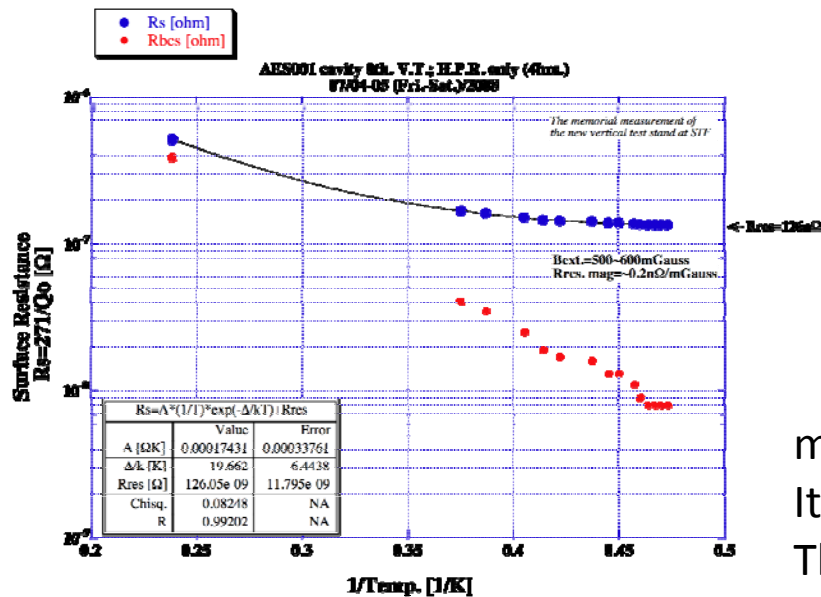
We force to proceed V.T. commission without magnetic shield ! (as system check)

residual magnetic field was ~700mG

So, Rres=126nΩ, Q was low (1-2E9).

Field reached 11.2MV/m

limited by big heat loading (big rf power).



magnetic shield was delivered in July 14.

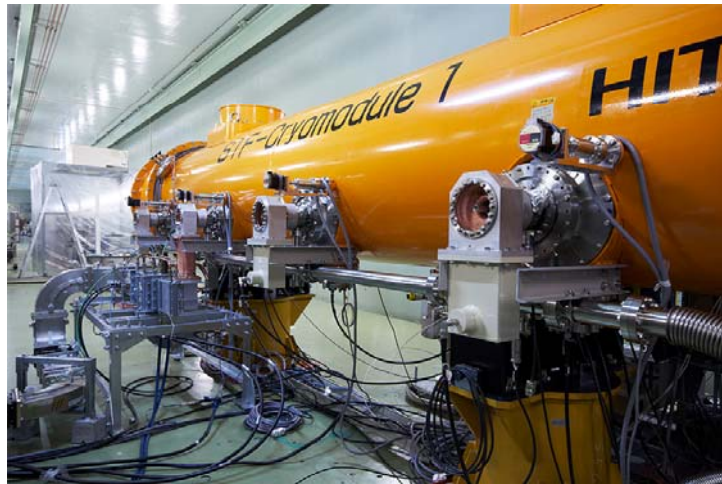
It was already installed. (residual field ~50mG)

The next V.T. of AES001 is scheduled in Aug. 25-29

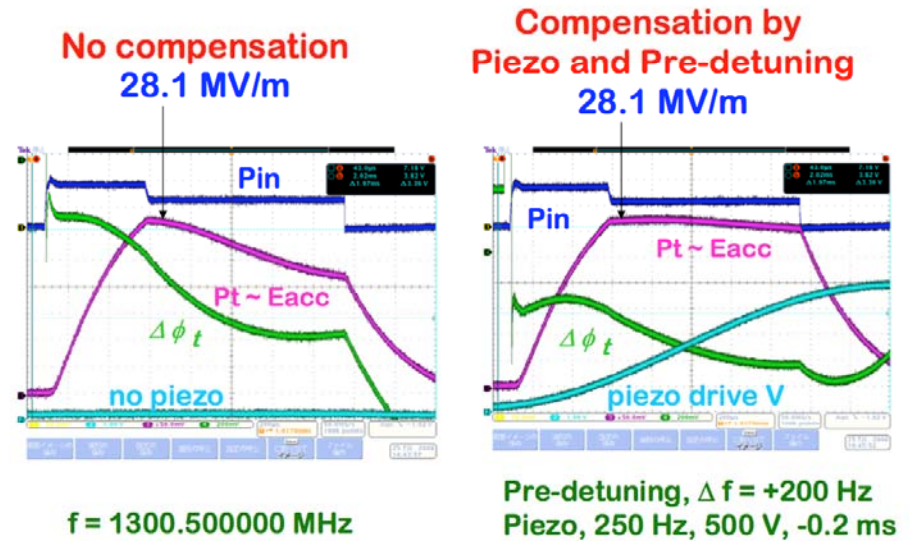
Cryomodule test for BL#2 cavity

cool-down : May 20 - June 6
without warm coupler.

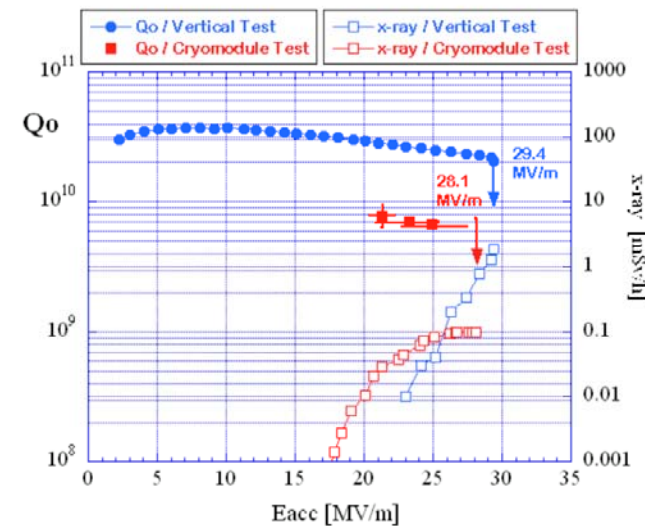
: June 30 – July 25
with warm coupler.
klystron connection for
only BL#2 cavity.



Best Result ; obtained Eacc,max



Qo - Eacc : cryomodule & vert. test



Other studies

Ichiro Cavities : several EP and VT studies are on going for I9#7, I9#8, and I9#5 (9 cell cavities)
single cell with end-group are also EP and VT on going.
(results are not yet released)

Surface study of Nb sample with EP : two JLAB Nb sample were Nomura-EP'd
and sent back to JLAB.

KEK Nb sample EP and XPS analysis is scheduled in Aug. 19-29.

Kyoto camera : production model of Kyoto-camera left KEK for DESY, for 1 year loan.
Observation of BL#5 BL#6 cavities and ERL 9 cell cavities,
DESY AC71, AC74, AC80 are being careful observation repeatedly.
(Z111 and Z110 were sent back to DESY.)

Design and development of cavity surface repair and sponge cleaning are being done.

