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WP 10 Report

RF Infrastructure Transfer

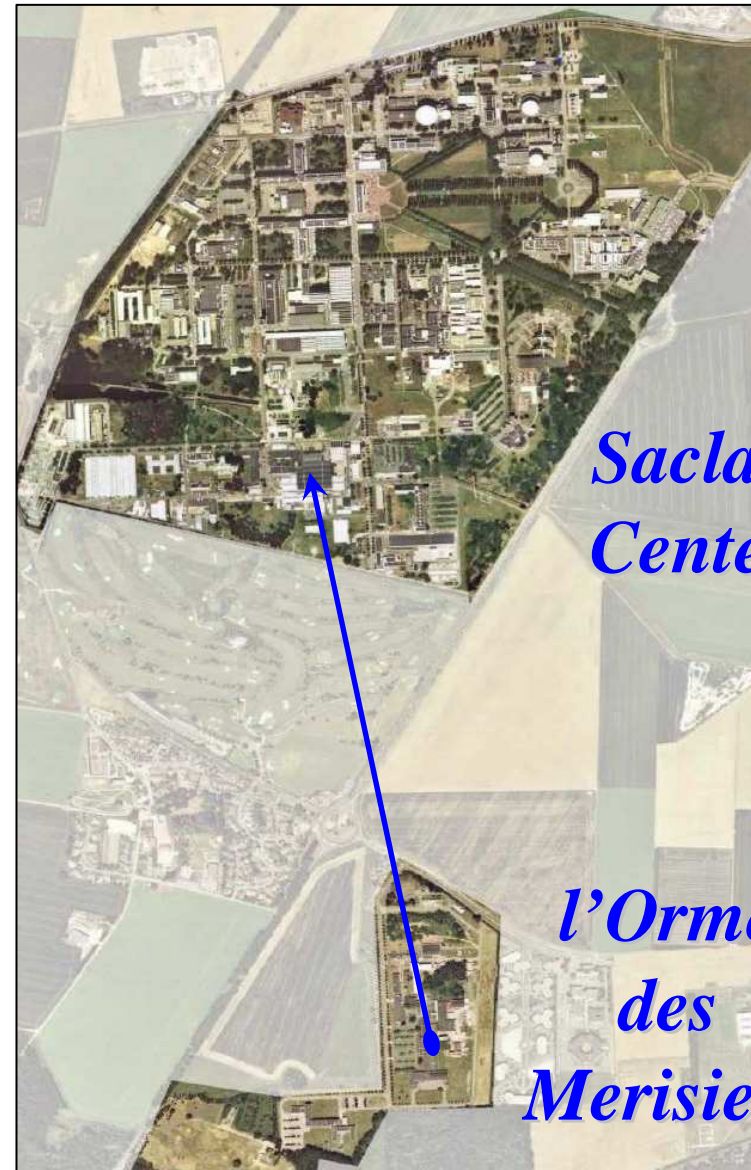
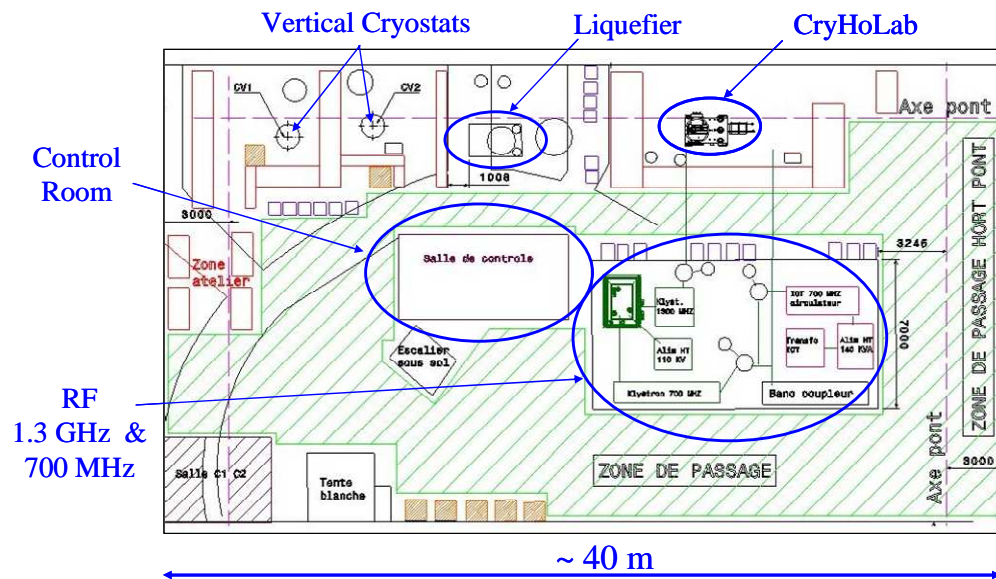
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Finished in May 2007

Vertical & Horizontal cryostats
Helium plant (liquefier...)
RF Power (klystrons...)
except Chemistry and Clean Room
(2008)



Saclay Center

l'Orme des Merisiers

RF Infrastructure Transfer (cont.)

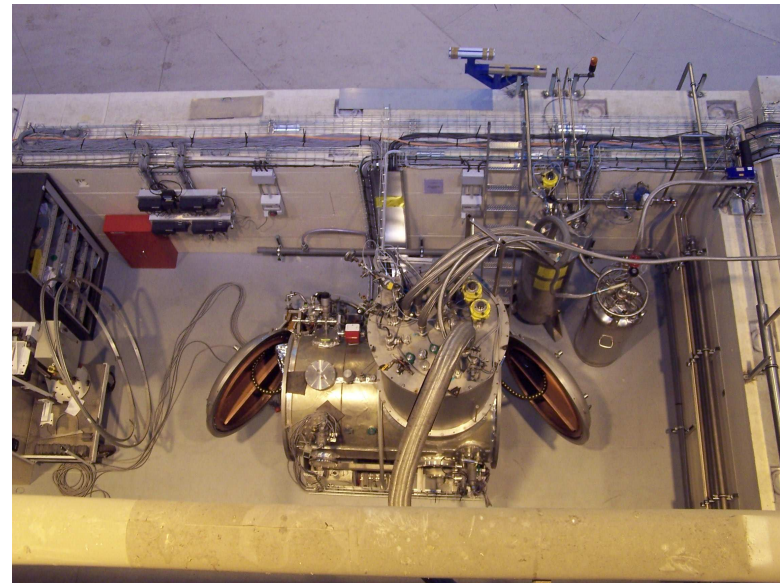
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Site Views :

Vertical Test Stands & CryHoLab



RF Infrastructure Transfer (cont.)

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Site Views :



Control Room



*RF platform
(1.3 GHz and 700 MHz)*

RF Experiments on VTS

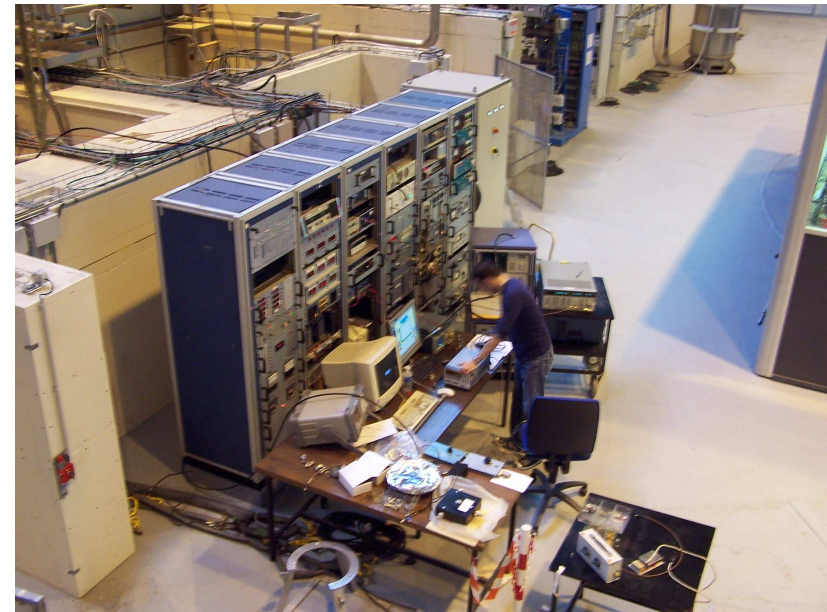
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RF Tests in Vertical Cryostats restarted in June 2007:

- *VTS n°2 for R & D on EP Single cells (WP 5.1) @ 1.3 GHz – 1.7 K*
- *VTS n°1 for Spiral 2 program : Quarter Wave Resonator @ 88 MHz – 4K*



RF Experiments on HTS

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CryHoLab is **not ready** at this time

D.I. water only ready in mid-October (problems with cooling tower) :

- *peeling of Al blades → cleaning in first time then replacement*
- *authorization document for safety use*



with as Consequences a delay to restart :

- *He liquefier (compressor)*
- *RF power (klystron)*

« Saclay II » C.T.S. with M.F.T.

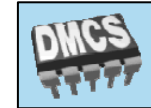
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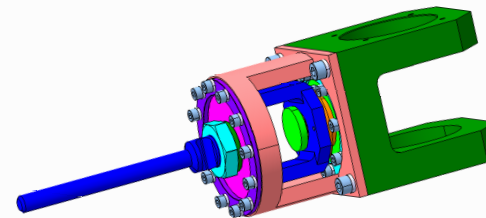
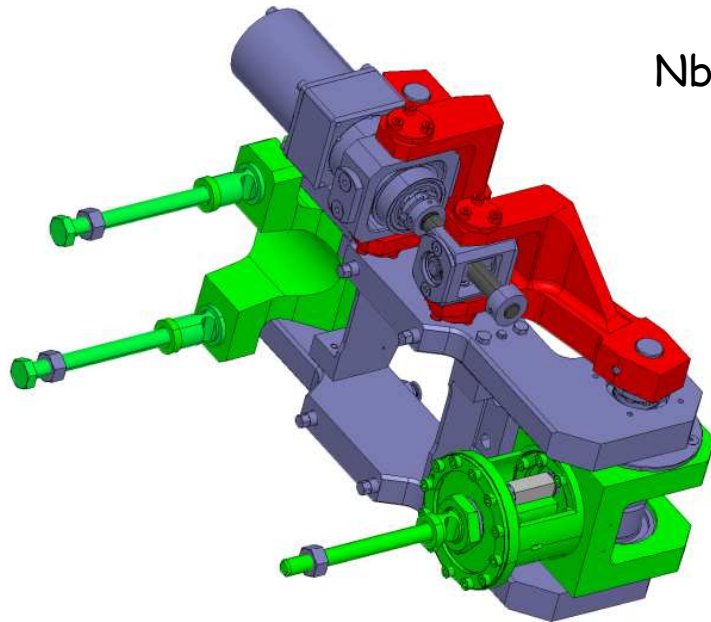
integrated experiment (WPs 8+10) with Magnetostrictive Fast Tuner

Collaboration with Technical University of Lodz



Magnetic Smart Material
from ENERGEN

Nb₃Sn superconducting coil



adaptation manufactured

and installed on CTS

« Saclay II » C.T.S. with M.F.T.

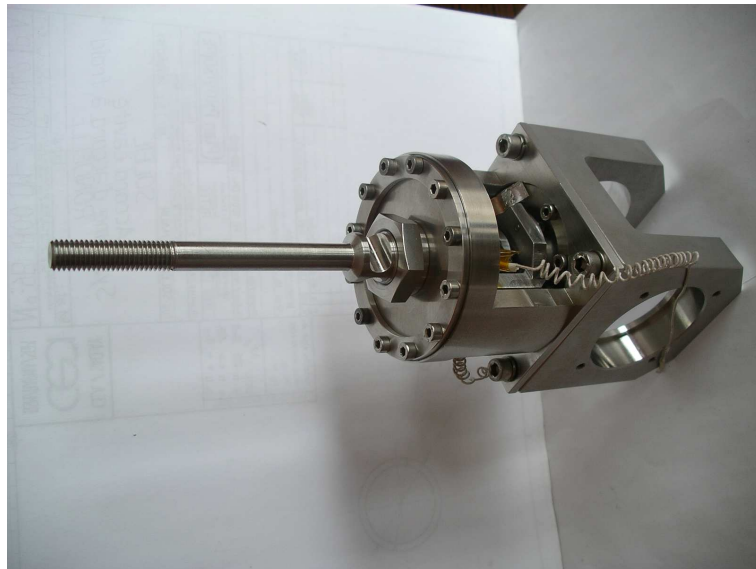
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Magnetostrictive Fast Tuner adaptation

is manufactured and installed on CTS / 9 cell cavity



Schedule

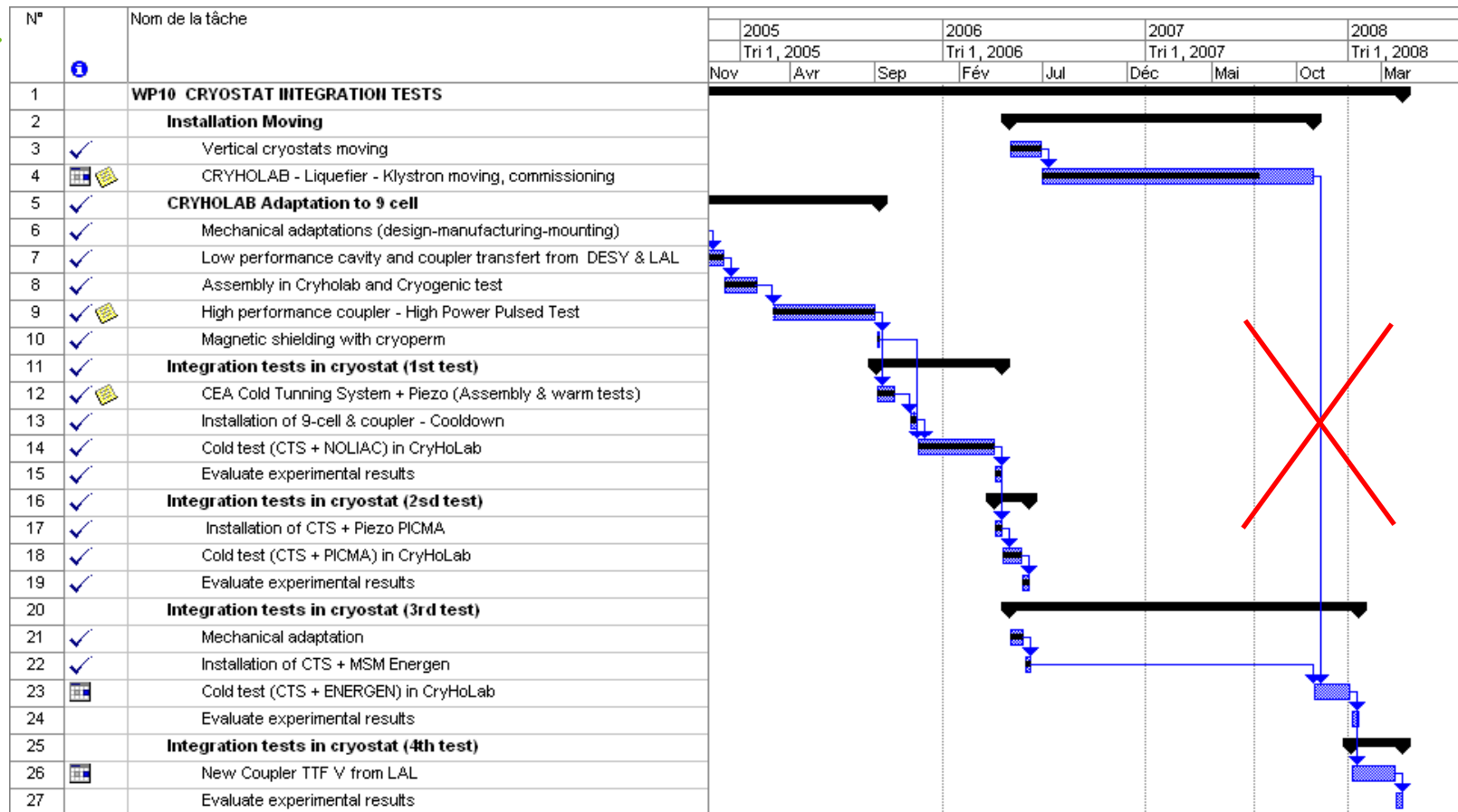
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It will be difficult to test MFT tuner in CryHoLab before the end of year



(Consuming time to condition He production - Cryholab cooldown - RF & Coupler)

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To test MFT in Checchia @ DESY, is it conceivable ?