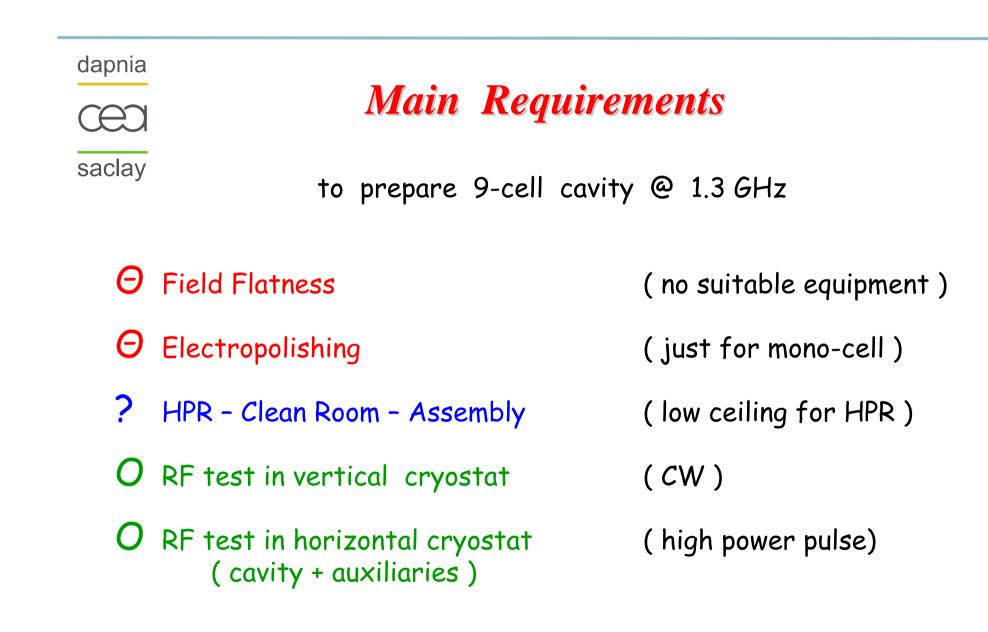
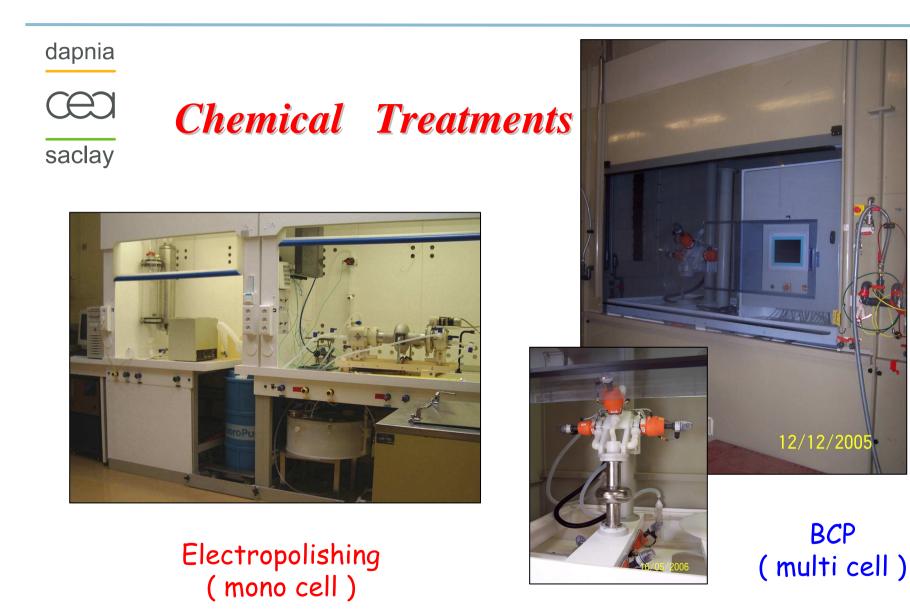


B. Visentin

CERN Meeting - 14th June 2006





dapnia



Clean Room







HPR station not well adapted for 9-cell (1283 mm)

ceiling height 1350 mm (above HPR nozzle)

Vertical Cryostat (CV-1)

dapnia





Ø_{useful} = 700 mm - H = 2.92 m - H_{LHe} = 1.2 m @ 1.7K Consumption 1500 liters / test 2 vacuum pumping groups (roots : 1900 m³/h - 1 g/s @ 13 mb) CW RF power unit 200 W (700 to 1500 MHz) Magnetic shields (μmetal & coils) - B_{res}~2mG



3 inserts



cavity connected



ready for RF test

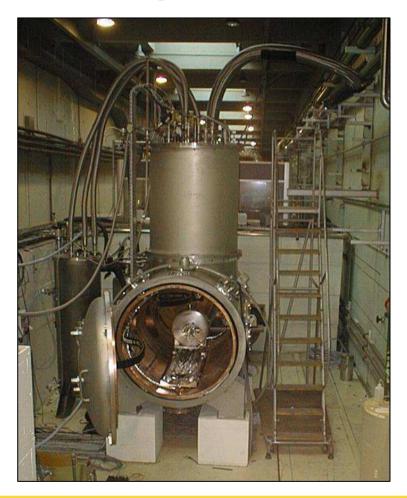
Horizontal Cryostat (CryHoLab)

dapnia

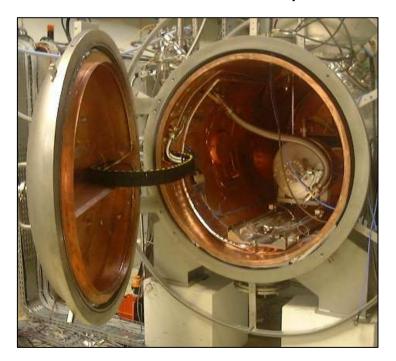


Ø_{useful} = 700 mm - L_{useful} = 1.5 m Consumption 30 liters / hour Magnetic shields (μmetal - coils) - B_{res} ~ 20 mG

saclay



cryoperm structure around the cavity



Horizontal Cryostat (CryHoLab)

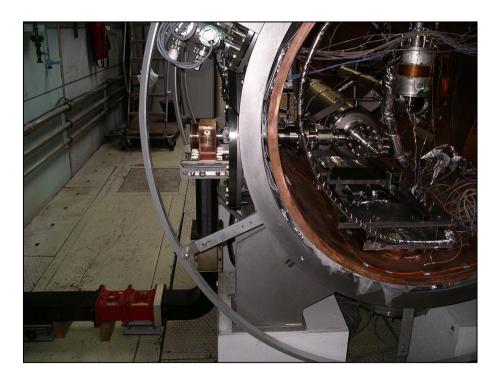
dapnia

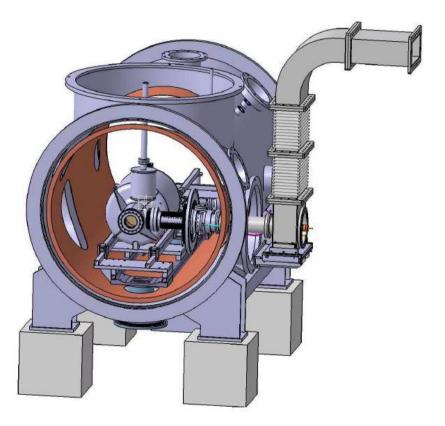


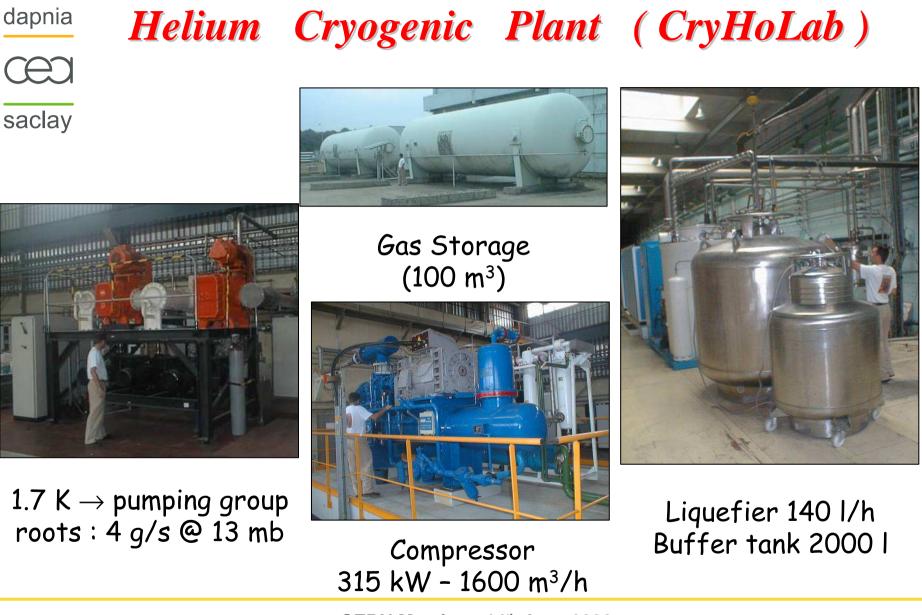
Possibility to test cavities at 1.3 GHz or 700 MHz

saclay

(separate RF power ports)







dapnia

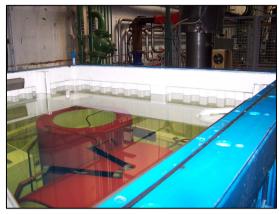
saclay

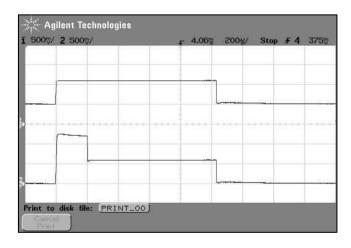
Pulsed RF Power (1.3 GHz)

Thales Klystron 1.5 MW - 1 ms - 10 Hz

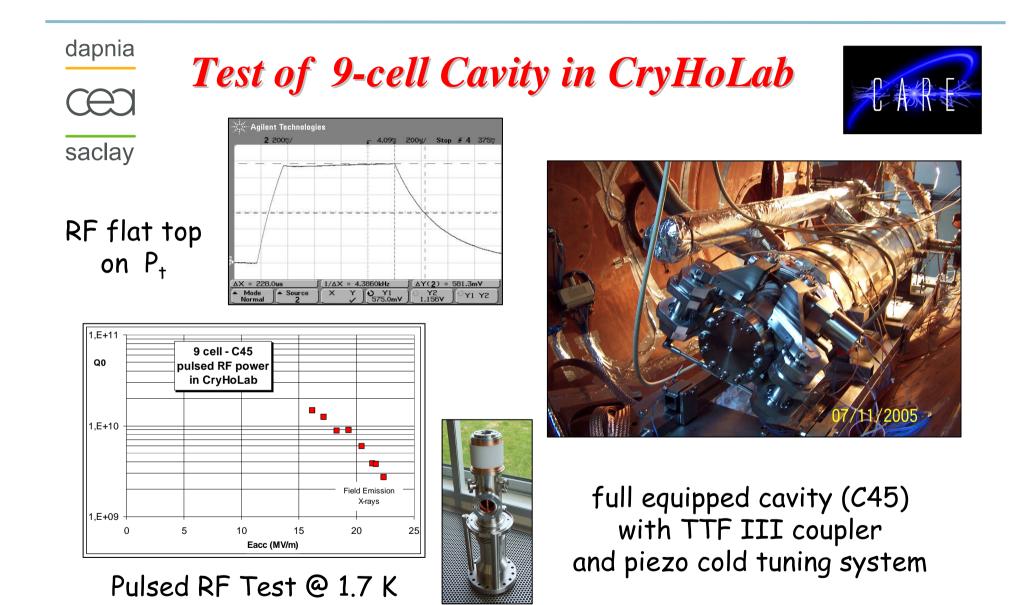


Modulator (oil 4500 l)





RF power without or with pre-pulse P (1ms) or 4P/P (200µs / 800µs)



dapnia

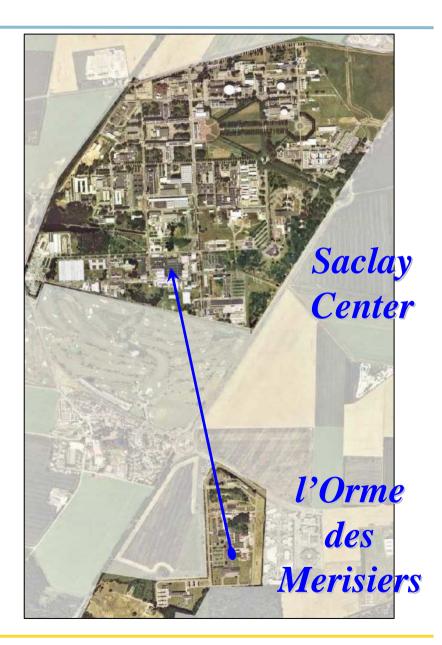
saclay

Facilities Transfer

<u>First step</u> : May – Dec. 2006 Vertical & Horizontal cryostats Helium plant (liquefier...) RF Power (klystrons...)

> <u>Second step</u>: mid 2007 ?

Chemistry New Clean Room (Spiral2 project) $28 \rightarrow 53 \text{ m}^2$



New Experimental Site

