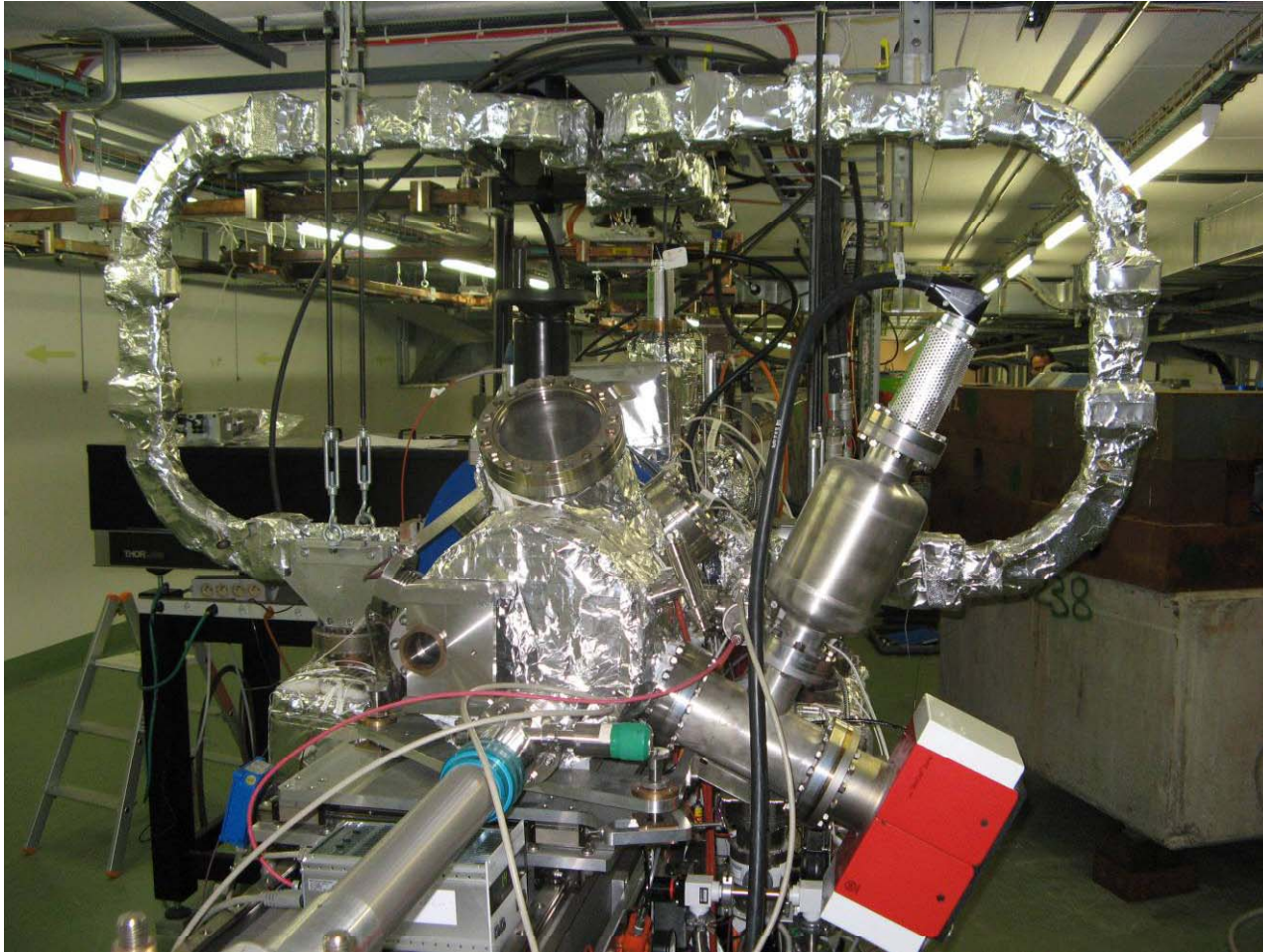


Status of the CALIFES RF gun and photocathode preparation



15 August 2008

Status of the CALIFES RF gun and photocathode preparation

- open preparation chamber, insert flange with Te and Cs sources, close and pump, leak-test
-> DONE
- test electrical connection on evaporation module, pre-heat (out-gassing) the sources
(any time there is access to CLEX, between now and end of September)

October shutdown

- bake-out of gun, waveguides, preparation chamber, 1 m piece of vacuum system upstream of section 1 (asap. in shutdown of October)
 - final low-level RF measurements in CLEX
 - connect waveguides, fill SF6 in long waveguide section
 - insert photocathode plug, perform RF conditioning of CALIFES gun + corresponding waveguides
 - retract plug, evaporate Te and Cs, insert plug
access to CLEX needed – 3 days !
 - final RF conditioning (few days?)
-
- start e- production using UV laser – around 10 November ?

any questions to:

CALIFES RF gun, preparation chamber etc.

?

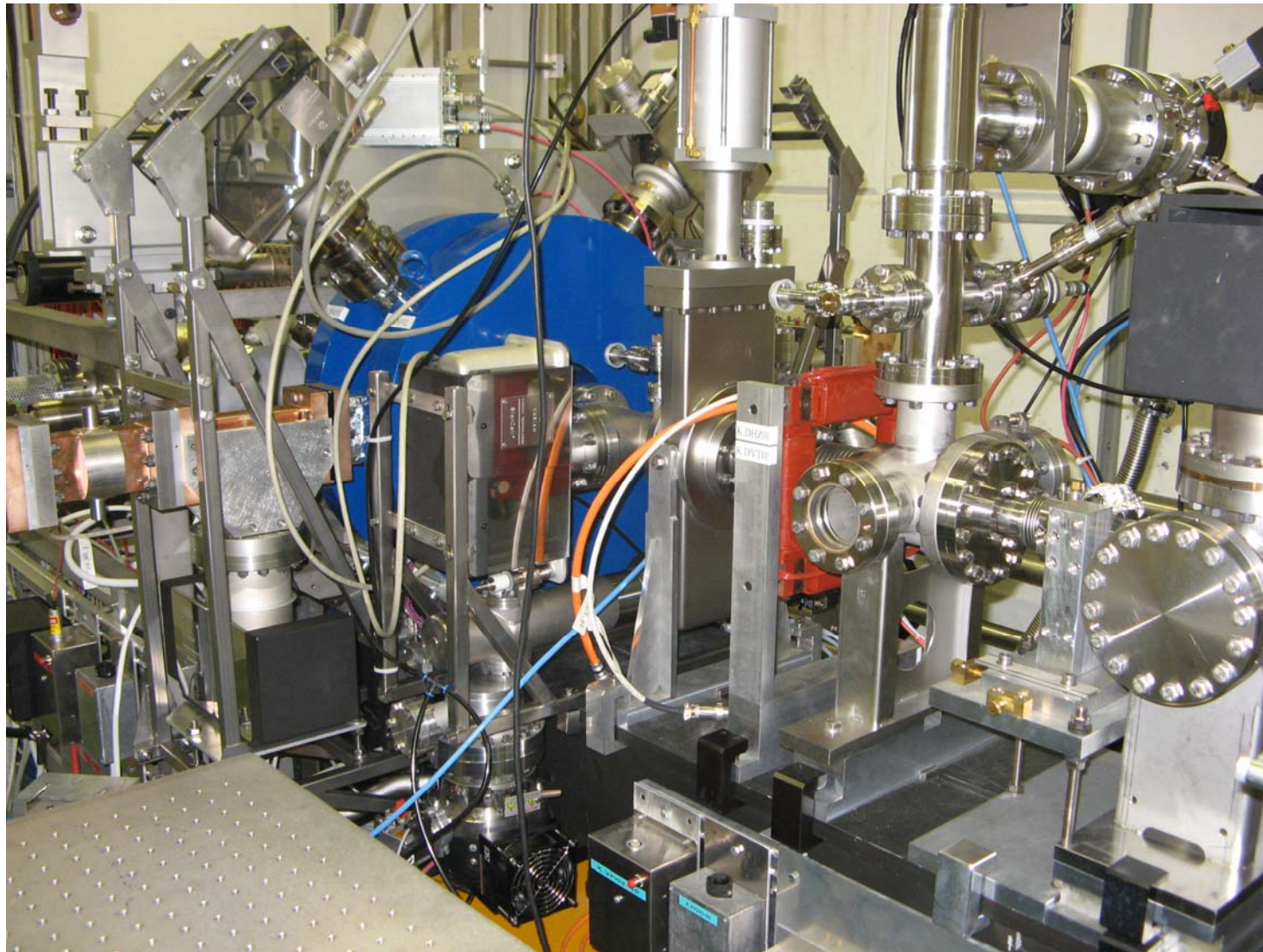
Status of the laser system (CERN part)

cf. presentation by Massimo Petrarca

We acknowledge the help of several CERN groups/teams, allowing us to buy the *expensive* fast oscilloscope.

The excellent collaboration with Frascati (incl. the help from Carlo Viscari) is gratefully acknowledged.

Status of the PHIN photoinjector



16 September 2008

Status of the PHIN photoinjector

- **many thanks for the help by the vacuum group**
(hardware, controls, RGA + technical assistance)
- **excellent progress also on wave-guides** (but still some parts missing)
- **low-level RF measurements to be done (under vacuum) !**
- **need klystron (MKS14) for RF conditioning and beam tests**

NB. present schedule extremely tight –
might need to schedule a beam test in November