

F. Gerigk, J-M. Giguët, G. T. Papadaki, K. Schirm, R. Wegner, P. Ugena-Tirado

General news, water and air temperature in Linac4 tunnel (F. Gerigk)

- The cooling water temperature in the tunnel for Linac4 will be stabilised between 20-23 degrees Celsius, the air temperature in the tunnel will be between 22 and 24 degrees Celsius (values confirmed).

General news, RF power levels of cavity pickups (F. Gerigk, P. Baudrenghien, J. Broere, J-M. Giguët, C. Rossi, R. Wegner)

- P. Baudrenghien: power levels of 1 to 10 W at cavity pickup are desired
- J. Broere, J-M. Giguët: 10 W level preferable, because of more margin for transport/splitting/etc.
- Decision of power levels for Linac4 cavities:
 - ◆ RFQ: 5 W at pickups for 1 MW of dissipated power in the cavity (nominal level ~ 600 kW)
 - ◆ DTL module 1: 10 W at pickups for 1 MW of dissipated power in the cavity
 - ◆ DTL module 2: 5 W at pickups for 1 MW of dissipated power in the cavity
 - ◆ DTL module 3: 5 W at pickups for 1 MW of dissipated power in the cavity
 - ◆ CCDTL all 7 modules: 10 W at pickups for 1 MW of dissipated power in the cavity
 - ◆ PIMS all 12 modules: 10 W at pickups for 1 MW of dissipated power in the cavity
 - ◆ Debuncher: 10 W at pickups for 20 kW of dissipated power in the cavity at resonance frequency without beam
- A further discussion will take place to specify how a separate signal can be supplied for independent measurements of the cavity fields (amplitude and phase). A splitter from P. Baudrenghien will be tested for signal isolation and phase stability

General news (F. Gerigk)

- In-kind from ESS-Bilbao approved
- informed S. Weisz that MTF is not usable and that data is not created as requested (DTL). He will get in touch with Karl

DTL (J-M. Giguët)

- tank segment T1S2 has been heat treated and sent back to Spain

SM18 Linac4 test stand (J-M. Giguët)

- A Fast Current Wall Transformer (FCWT) for high power tests has been installed to the left side on the 1st PIMS module.
- The helicoflex joint of the right side was found to be deformed due to the high power tests (Linac4 test and SPL average power test). Reasons could be X-rays or temperature.

PIMS (F. Gerigk, R. Wegner)

- PIMS 1st module will be re-tuned to the nominal water temperature of 21.5 degrees Celsius once the high power tests in SM18 are completed.
- The tolerances required for the PIMS series production are tight and challenging to achieve. Work is done to identify margins for relaxation or for accepting non-conformities. Procedures and tools are developed at the Soltan Institute with support from CERN to meet the tolerances. The LEP copper cavities which have been built 30 years ago had very similar tolerances.

PIMS (P. Ugena-Tirado)

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- Work on the tuning Procedure for the PIMS goes on.
- Note on the tuning curves for the PIMS has been finished and waiting for corrections.

-- RolfWegner - 26-Jan-2012

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