Summary:

- using 3 CCDTL type tuners, diameter 83 mm of the piston, flange: DN100
- RF simulations, rough idea, to be verified: beta range ~ 0.95 (penetration 20 mm) to ~ 0.25 (penetration 100 mm), meaning that 80 mm of range for tuner penetration are enough if we can start with 20 mm penetration
- this morning we saw that it should be possible to place a movable tuner into the waveguide coupler of the last 3 PIMS cavities (integration issue) – it is very tight and should be verified.
- if movable tuners are used, they need to be installed in the waveguide-T BEFORE the T is mounded to the cavity (otherwise no space)
- Yves offered to change the design for the CCDTL tuners so that we can penetrate the tuner by 20 mm for the zero-position. That is crucial, otherwise the movable tuner would not allow enough change of the coupling.
- There would not be enough space to place an additional spacer to reduce the minimal penetration to 0 mm, instead of 20 mm. We will accept 20 mm penetration as the minimum.

Actions:

- RF validation for a tuner at a position x_tuner=300 mm and tuner diameter = 83 mm
- finalize the design of the movable tuner, type CCDTL
- once the tuner design is fixed, we should cross-check the integration for PIMS module 11 = cavity L

-- RolfWegner - 22-Feb-2011

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