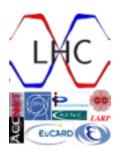
LHC-CC10, 4th LHC Crab Cavity Workshop



Contribution ID: 6 Type: not specified

LARP cavity developments

Wednesday 15 December 2010 14:40 (15 minutes)

The development of the single rod half-wave cavity at 400 MHz toward a crab cavity for the LHC. Detailed cavity-coupler design including deflecting mode characteristics, HOM spectra and achievable damping, coupler configurations, mechanical tolerances, tuning concepts, multipacting and non-linearity of deflecting voltage with transverse offset. Additionally cavity fabrication, treatment, assembly of coupler, Helium vessel and ancillary equipment should be foreseen within the design concept.

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Session Classification: Cavity Technology