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LARP cavity developments

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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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