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Stretched wire techniques for a 15 GHz RF-BPM

Monday 2 February 2015 14:00 (30 minutes)

Summary

A precise, reproducible pre-alignment of beam position monitors (BPM) and quadrupole magnets is a critical prerequisite to achieve a low emittance beam transport along the main linacs of the Compact Linear Collider CLIC, currently under study at CERN.

Within the PACMAN Marie Curie training network we present first ideas of a dedicated stretched wire test bench, to analyse the electrical center of the high resolution CLIC/CTF3 cavity BPM, operating at a dipole mode frequency of 15 GHz. Fundamentals of the resonant cavity BPM, concepts and general design are discussed.

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