

Optimization of beam coupling impedance of button and stripline BPMs

Beam position monitors (BPMs) are essential diagnostics tools in particle accelerators. Due to the large number of BPMs typically installed, their cumulative contribution to the beam coupling impedance cannot be neglected.

In this work, design optimization for both button and stripline BPMs aimed at reducing beam coupling impedance while maintaining or enhancing the signal transfer impedance is discussed.

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