

Higher Order Modes based Beam Phase Measurements at the European XFEL

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The control of the RF phase and amplitude in accelerating cavities is vital for the operation of superconducting accelerators. The beam phase is normally inferred from the beam induced accelerating mode. On the contrary, the beam phase can also be obtained from beam induced higher order modes by comparing to the fundamental mode. We present results of beam phase measurements carried out at the injector of the European XFEL based on a fast scope. The two methods will be compared.

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Session Classification: Student Session