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Characterization of the Electron Beam in the ACHIP Chamber in SwissFEL

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We have installed an interaction chamber in the electron beam line of SwissFEL. Electrons with a particle energy of 3 GeV are focused into the sample, which can be aligned to electron and laser beam with a hexapod. The goal of this installation is to demonstrate laser-driven acceleration inside dielectric structures. We present here the layout of this chamber, as well as first measurements of the electron beam.

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