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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.

Primary authors: ISCHEBECK, Rasmus (PSI); Dr BETTONI, Simona (Paul Scherrer Institut); Ms BORRELLI, Simona (Università di Pisa); Dr CALVI, Marco (Paul Scherrer Institut); Dr FREI, Franziska (Paul Scherrer Institut); Mr HAUENSTEIN, Dominique (Paul Scherrer Institut); HERMANN, Benedikt (Paul Scherrer Institut); Mr HÜRZELER, Orell (Paul Scherrer Institut); Dr LOMBOSI, Csaba (Paul Scherrer Institut); Dr PRAT, Costa Eduard (Paul Scherrer Institut); Dr REICHE, Sven (Paul Scherrer Institut); RIVKIN, Leonid (PSI, Villigen)

Presenter: ISCHEBECK, Rasmus (PSI)

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