

X-Ray Microscopy Activities at ACCEL

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ACCEL Instruments GmbH is a worldwide operating engineering and manufacturing company specializing in custom-designed equipment for research and industry in the fields of particle accelerators, medical applications, and synchrotron radiation instrumentation. We design, manufacture, install, and commission complete beamlines as turnkey systems. We also provide components such as undulators, wigglers, monochromators, mirror systems, slit systems and beam monitors as well as other beamline components. Among other types of experimental end stations, ACCEL Instruments also offers X-ray microscopes.

In this poster, we give an overview of our current activities in the field of X-ray microscopy, comprising both scanning transmission microscopes (STXMs) for spectromicroscopy and full-field microscopes (TXMs) for biological specimens. The microscopes are based on designs developed at synchrotron facilities and are realized in close cooperation with the respective research groups.