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THz spectrometer using diffraction radiation for parasitic current profile measurements at European XFEL

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The broadband and single-shot spectrometer CRISP detects coherent diffraction radiation at European XFEL in the infrared and THz regime for current profile measurements. The noninvasive radiation source and the MHz capability of spectrometer allows an individual characterization of all bunches of the European XFEL bunch train. This poster presents the working principle of the spectrometer, the current profile reconstructions and comparative measurements with other diagnostics.

Summary

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