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Electro-optical spectral Decoding of THz Pulses at MHz Repetition Rates

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A far-field electro-optical (EO) setup based on a balanced detection scheme has been set up to measure the coherent synchrotron radiation (CSR) at the Karlsruhe Research Accelerator (KARA). To enable the readout with a electro-optical spectrally decoded scheme (EOSD), a KALYPSO-based line array camera, sensitive to NIR operating at a read-out rate of 2.7 MHz, has been included in the set-up. In this contribution, measurement results with the KIT-developed ultra fast line array camera KALYPSO-based spectrometer in combination with a commercial THz emitter are presented.

Summary

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