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Ultra-Fast Linear Array Detector Development

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In collaboration with PSI, DESY, Lodz University and HZDR, we are developing an ultra-fast linear array detector system at KIT. The main development purpose of the system is for turn-by-turn based electro-optical spectral decoding diagnostics for which the spectrum of a single laser pulse has to be recorded at 2.7 MHz in order to reconstruct the longitudinal bunch profile. We are producing both an InGaAs-based version (sensitive in the near-infrared range) and a Si-based version (sensitive in the visible range).

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