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Abstracts

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A fast 8-channel pulse peak analyzer was designed for measurements on tokamaks. The measurement conditions are rather critical in some aspects, parallel recording of the spectra of several nuclear detectors is required at high counting rates. The instrument contains eight independent 8-bit fast Wilkinson-type A/D converters. During the measurement period data from the conversion are stored in the fast semiconductor memory of the unit. After the measurement cycle the data can be read out from the module via the Camac dataway at a slower rate. The memory can be divided into two sectors, enabling the unit to analyze the input pulses into one sector while the other is being read out.