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Real Time Pulse Shape Discrimination

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A real-time FPGA-based algorithm has been developed and tested to discriminate pulse-shapes, identify beta-gamma coincidence events and collect energy spectra from xenon radioisotopes using a phoswich detector.

Real-Time Digital Pulse-Shape Discriminator (PSD) and Spectrometer with Simultaneous Amplitude and Pulse-Shape Discrimination. The nanoPSD is a digital spectrometer with embedded pulse-shape analyzer and pulse-shape discriminator. See a list of

key features below and the data sheet for a full description of the nanoPSD's features and specifications.

The system employs field programmable gate arrays (FPGAs) to do real-time all digital neutron/gamma ray discrimination with pulse height and time histograms to allow count rates in excess of 1,000,000 pulses per second per channel. The system detector number is scalable in blocks of 16 channels.

ORGANIC SCINTILLATOR FOR REAL-TIME NEUTRON DOSIMETRY ...

Real Time Pulse Shape Discrimination And Beta Gamma nanoPSD - labZY

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Pulse-shape discrimina-

tion (PSD) in fast, organic scintillation detectors is a long-established technique used to separate neutrons and γ rays in mixed radiation fields. In the analogue domain the method can achieve separation in real time, but all knowledge of the pulses themselves is lost thereby preventing the possibility of any post- or repeated analysis.

Pulse shape discrimination To verify the pulse shape discrimination (PSD) capabilities of the detector, we irradiated it from a distance of 5 cm with a ^{252}Cf spontaneous fission source, emitting neutrons and gamma-rays. We calibrated the detector electron-equivalent light output to the ^{137}Cs Compton edge.

The function of the real-time, digital multiple-channel pulse-shape discrimination analyzer is described together with the results of laboratory-based measurements with ^{252}Cf , ^{241}Am ...

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Therefore, a real-time digital pulse shape discrimination with the function of both rise time and amplitude discrimination is proposed. It can not only reject gamma signals and other background rays but also carry out real-time monitoring of neutron flux.

Fast neutron tomography with real-time pulse-shape ...

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Multi-Channel Analyser (MCA) for Pulse Height Spectral (PHS) analysis Explore Hybrid Instruments Ltd.

In recent years, real-time neutron/gamma-ray pulse-shape discrimination has become feasible for use with scintillator-based detectors that respond extremely quickly, on the order of 25 ns in terms of pulse width, and their application to a variety of nuclear material assays has been reported.

The pulse shape discrimination (PSD) between neutrons and gamma rays in liquid scintillators is studied by using the charge integration method with fast digitizers with sampling rate between 250 and 1000 MS/s and resolution between 10 and 14 bits.

Joyce, MJ, Aspinall, MD, Cave, FD & Lavietes, AD 2011, Real-time, digital pulse-shape discrimination in non-hazardous fast liquid scintillation detectors: Prospects for safety and security. in ANIMMA 2011 - Proceedings: 2nd International Conference on Advancements in Nuclear Instrumentation, Measurement Methods and their Applications. IEEE.

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Real-Time Pulse-Shape Discrimination and Beta-Gamma Coincidence Detection in Field-Programmable Gate Array A T Farsoni, B Alemayehu, A Alhawsawi, E M Becker Department of Nuclear Engineering and Radiation Health Physics, Oregon State University, Corvallis, OR 97331, USA ...

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Real time pulse shape discrimination and beta gamma

The MFAx4.3 analyzers provide real-time pulse-shape discrimination (PSD) together with high-voltage control and PSD threshold setting. This enables events from each detector to be discriminated from γ rays in 333 ns with a jitter of 6 ns and an event throughput of 3×10^6 per second.

Fast neutron tomography with real-time pulse-shape ...

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