

Real Time Pulse Shape Discrimination And Beta Gamma

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Real Time Pulse Shape Discrimination

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 pulse-shape discrimination and beta-gamma ...

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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

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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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Article | Real-Time Pulse-Shape Discrimination and Beta ...

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.

nanoPSD - labZY

Abstract: In recent years, real-time neutron/ γ -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. For the in-situ analysis of nuclear materials, measurements are often based on the multiplicity assessment of spontaneous fission events.

A 16-Channel Real-Time Digital Processor for Pulse-Shape ...

A fast neutron tomography system based on the use of real-time pulse-shape discrimination in 7 organic liquid scintillation detectors is described. The system has been tested with a californium ...

Author's Accepted Manuscript

- Pulse Shape Discrimination (PSD) is used on both prompt and delay signals to discern the type of event.
- Need to investigate what level of PSD we need for our scintillator.
- In lab we use gamma and neutron sources to study scintillator's response.

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- Neutron-like prompt (proton recoil) and neutron-like delay (neutron capture)

PULSE SHAPE DISCRIMINATION METHODS

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.

ORGANIC SCINTILLATOR FOR REAL-TIME NEUTRON DOSIMETRY ...

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.

n Application Note AN3250 CAEN

The latest in real-time analysis tailored to your specific needs Digital Pulse Shape Discrimination (PSD) with embedded Multi-Channel Analyser (MCA) for Pulse Height Spectral (PHS) analysis Explore Hybrid Instruments Ltd.

Home [www.hybridinstruments.com]

Pulse processing algorithms were developed based on triangular and trapezoidal filters to discriminate between neutrons and γ -rays at high count rate. The algorithms were first tested using low-rate data. They exhibit a pulse-shape discrimination performance comparable to that of the charge comparison method, at low rate.

Pulse shape discrimination of Cs 2 LiYCl 6 :Ce3+ detectors ...

Hence, stilbene and NE-213 scintillators produce very good results using pulse shape discrimination (PSD) methods. Time-domain PSD methods are not computationally intensive, and hence are most suitable for real-time applications. Classically, following analog PSD techniques were most often used for n/ γ -ray discrimination :

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Quick algorithms for real-time discrimination of neutrons

...

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.

Real-time, digital pulse-shape discrimination in non ...

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 pulse-shape discrimination and beta-gamma ...

Pulse Shape Analysis and Neutron-Gamma Discrimination For detectors sensitive to different types of radiation (e.g. Stilbene, CLYC, Xylene, EJ-309), the pulse shape analysis (PSA) option of a Pixie processor allows real-time pulse shape discrimination (PSD) of gammas, alphas, betas or neutrons in mixed field radiation.

XIA Applications Guide - Digital X-Ray Gamma Ray

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.

Optimization of a Fast Neutron Scintillator for Real-Time

...

real-time discrimination of radiation types in a mixed radiation field of positron (β^+) and gamma (γ) radiation, based on simple electronics and signal processing. Scintillators often have...

(PDF) A new positron-gamma discriminating phoswich ...

Pulse Shape Analysis and Neutron-Gamma Discrimination For detectors sensitive to different types of radiation (e.g. Stilbene, CLYC, Xylene, EJ-309), the pulse shape analysis (PSA) option of a Pixie processor allows real-time pulse shape discrimination (PSD) of gammas, alphas, betas or neutrons in mixed field radiation.

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