Syropy AI Connectivity

Fast Response Spectrometer

Fast Response Spectrometer

An Economical Tunable-Diode Laser Spectrometer for Fast-Response

10 and flexible open-path, fast-response instrument for measurements of water vapor. The in situ method of tunable diode laser absorption spectroscopy in the short-wave infrared was chosen based

Dynamic Characteristics of a Fast-Response Aerosol Size Spectrometer

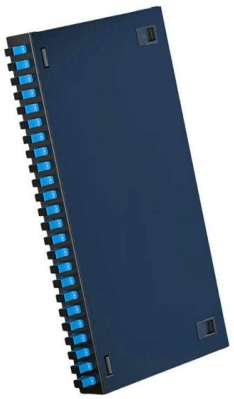
A fast integrated mobility spectrometer (FIMS) was previously developed to characterize submicron aerosol size distributions at a frequency of 1 Hz and with high size resolution and counting

(PDF) Fast spectrometer near the Heisenberg limit with

We present a single-photon-sensitive spectrometer, based on a linear array of 512 single-photon avalanche diodes, with 0.04 nm spectral and 40 ps

Faraday rotation spectrometer with sub-second response time for

A Faraday modulation spectrometer for sensitive and fast detection of nitric oxide at 5.33 um utilizing a room temperature continuous wave distributed feedback quantum cascade laser and a



A fast-time-response extreme ultraviolet spectrometer for

The fast-time-response EUV spectrometer has been newly constructed for monitoring several impurities in EAST discharges by measuring the EUV line emissions in the wavelength range of 20-500 Å.

A wideband, high-resolution vector spectrum analyzer for integrated

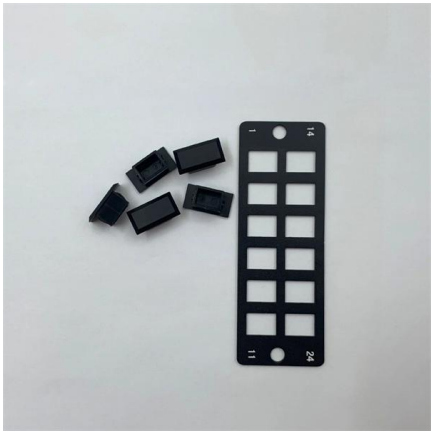
The invention and development of many kinds of spectrometers have equipped us with versatile yet ultra-sensitive diagnostic tools for trace gas detection, isotope analysis, and resolving

Development of a compact fast-neutron spectrometer for nuclear

We have developed a portable neutron spectrometer called Compact Fast Neutron Spectrometer (CFNS), which consists of organic glass scintillators (OGS) and silicon photomultipliers

(PDF) Fast spectrometer near the Heisenberg limit with

F ast spectrometer near the Heisenberg limit with direct measurement of time and frequency for multiple single photons Jakub Jirsa, 1, 2 Sergei Kulkov,

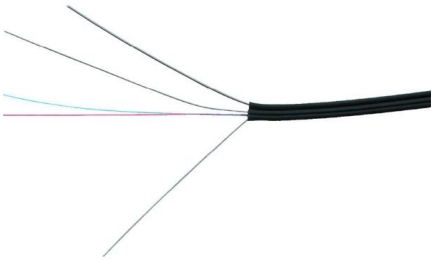


Design and performance evaluation of a compact thermal and fast

In this paper, a compact broad-spectrum neutron spectrometer was designed through an EJ-254 fast neutron detector and a pair of NaIL thermal and epithermal neutron detectors.

Development of a compact fast-neutron spectrometer for nuclear

Download Citation , On Jun 1, 2023, J.F. Perello and others published Development of a compact fast-neutron spectrometer for nuclear emergency response applications , Find, read and cite all the



/home/journal/dvi/APB0935-AP-neu.dvi

Over the last two decades, tunable diode laser (TDL) absorption techniques have proven extremely useful in providing fast-response and precise meas-urements of many key species including N2O,

(PDF) A fast-time-response extreme ultraviolet spectrometer for

A flat-field extreme ultraviolet (EUV)spectrometer working in the 20-500 Å wavelength range with fast time response has been newly developed to measure line emissions from highly

A compact direction-sensitive fast neutron spectrometer

A novel compact multi-scintillator detector featuring a moderating cross-shaped filler has been developed and shown to be suitable for both fast neutron spectroscopy and the determination

An economical tunable diode laser spectrometer for fast-response

Herein, we describe the design and char-acterization of an economical and flexible open-path, fast-response instrument for measurements of water vapor.

Sampling frequency, response times and embedded signal filtration in

Sampling frequency, response times and embedded signal filtration in fast, high efficiency liquid chromatography: A tutorial

Design of fast response Doppler spectroscopy system for HUST field

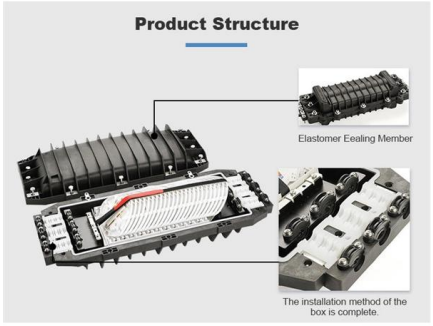
A fast response Doppler spectroscopy system with high throughput and high resolution is under development for studying the drifting velocity, rotation velocity, and ion temperature on the

Fast temperature spectrometer for samples under

We have developed a multi-wavelength Fast Temperature Readout (FasTeR) spectrometer to capture a sample's transient temperature fluctuations,

Dynamic Characteristics of a Fast-Response Aerosol Size Spectrometer

The fast integrated mobility spectrometer (FIMS) is a highly sensitive instrument with a fast response time. The time response of the FIMS is limited by the mixing of the aerosol in the inlet of the



An Economical Tunable-Diode Laser Spectrometer for Fast-Response

fast-response tunable diode laser spectrometer suitable for measurements of water vapor in the atmospheric boundary layer (ABL). The instrument bridges the current gap between research grade

A fast-time-response extreme ultraviolet spectrometer for

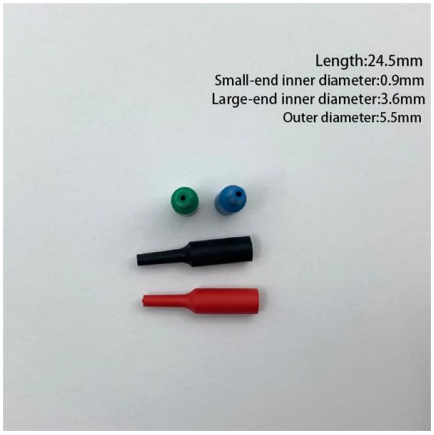
A flat-field extreme ultraviolet (EUV) spectrometer working in the 20-500 Å wavelength range with fast time response has been newly developed to measure line em

Design and performance evaluation of a compact thermal and fast

Space neutron spectrometry and spectrometer design have been studied in various countries. Fast neutron energy has a higher and more extensive energy range, thus usually the recoil

Helios IR

HELIOS IR is a broadband mid-infrared pump-probe femtosecond Transient Absorption Spectrometer. A complete turnkey system, it can measure



[1505.06654] Neutron spectrometer for fast nuclear reactors

In this paper we describe the development and first tests of a neutron spectrometer designed for high flux environments, such as the ones found in fast nuclear reactors. The

Development of a compact fast-neutron spectrometer for nuclear

A portable neutron spectrometer, nSpec, has been developed for passive interrogation of fast neutrons (> 1 MeV) from neutron sources.

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