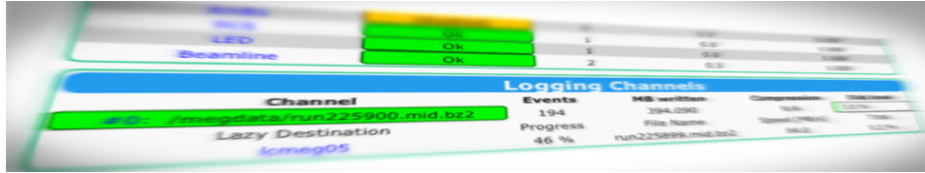


# MIDAS Seminar



## Report of Contributions

Contribution ID: 0

Type: **not specified**

## **WaveDAQ - A new MIDAS based DAQ system for the MEG II experiment at PSI**

We will finish off the seminar with a hardware talk. The WaveDAQ system currently under development at PSI, Switzerland, combines the DRS4 waveform digitizer running at 5 GSPS with preamplifiers, ADCs and high voltage biasing suited for SiPMs. A new crate standard has been developed which features dual star gigabit links, ultra low jitter clock and trigger distribution and integrated crate management at a fraction of the costs of standard crate systems. The presentation will present the design principles of the crate and cards and show first test results.

**Presenter:** RITT, Stefan (Paul Scherrer Institut)

Contribution ID: 1

Type: **not specified**

## MIDAS for the SuperCDMS dark matter experiment

The SuperCDMS collaboration has decided to build the DAQ for its new experiment at SNOLAB using the MIDAS platform. I will review design considerations for the trigger and readout that are unique to SuperCDMS and detail how we propose to implement these in MIDAS, with particular focus on a hierarchical software trigger framework.

**Presenter:** OSER, Scott (UBC)

Contribution ID: 2

Type: **not specified**

## The Data Acquisition for the Muon $g-2$ Experiment at Fermilab

We are building a data acquisition system for the new Muon  $g-2$  Experiment at Fermilab, which will acquire data from 24 calorimeters as well as tracking and auxiliary detectors read out in microTCA waveform digitizers at an expected rate of 18 GB/s. The system will be comprised of multicore CPUs with GPUs for data processing. The experiment is expected to begin data taking in early 2017.

**Presenter:** GOHN, Wes (Uni of Kentucky)

Contribution ID: 3

Type: **not specified**

## DEAP V1720 Frontends and Event Builder

**Presenter:** LINDNER, Thomas (TRIUMF)

Contribution ID: 4

Type: **not specified**

## **GRIFFIN: Custom Hardware & Web control**

**Presenter:** SHAW, Bryerton (TRIUMF)

Contribution ID: 5

Type: **not specified**

## **Midas current development state**

**Presenter:** OLCHANSKI, Konstantin (TRIUMF)

Contribution ID: 6

Type: **not specified**

## Few words of Introduction

*Wednesday, 15 July 2015 12:15 (10 minutes)*

**Presenter:** AMAUDRUZ, Pierre-André



Contribution ID: 7

Type: **not specified**

## GRIFFIN Overview

**Presenter:** GARNSWORTHY, Adam (TRIUMF)

Contribution ID: 8

Type: **not specified**

## Rootana: Event Display & Web GUI

rootana is a package for simplifying the creation of analyzers that connect to MIDAS information. We will describe briefly developments of rootana. In particular, will describe recent introduction of ROOT web server, which provides a cleaner path forward for presenting analyzed MIDAS information.

**Presenter:** LINDNER, Thomas (TRIUMF)

Contribution ID: 9

Type: **not specified**

## Modern Web tools and Midas

**Presenter:** SMITH, Ben (TRIUMF)