12GeV Trigger Workshop
Christopher Newport University, Newport News, VA

Wednesday 8 July, 2009

Registration Link:
http://www.jlab.org/Hall-D/meetings/online_workshop2009/Registration/Register.php

For conference call participation:
1) Dial toll free 1-800-377-8846 (From Canada dial 1-888-276-7715)
2) Enter the participant passcode, 29917863 followed by the # sign

__Session I: 0900 --> 10:45__
Welcome and Overview   -Chris Cuevas

-- Goals for the workshop
1. Review and discuss present requirements for the trigger systems of Hall D
and Hall B, Hall C and Hall A.
2. Clearly identify new requirements for trigger system modules that have
not been designed. Review recent success of two crate trigger module test station.
3. List requirements for "Global" trigger system:

Topics:
Flash ADC -- Review list of specifications and measured performance
Flash ADC Revision 1 --
Crate Trigger Processor
Signal Distribution (Clock, Trigger, Sync)
Trigger Interface

__Coffee Break: 10:45 --> 11:00__

__Session II: 11:00 --> 12:45__
DAQ System - Session 'leaders' David Abbott, Ed Jastrzembski

Topics:
System configuration issues
Data readout issues.
        Event blocking
        2eSST
Trigger supervisor -- Review planned capabilities
Managing pipelined triggers and various trigger types
Concurrent operation of multiple trigger 'sessions'

__Lunch 12:45 --> 14:00__

__Session III: 14:00 --> 15:45__
Global Trigger - Session 'leader' Alex Somov

Topics:
- Review Physics motivation, requirements

- Will the hardware be capable of handling the trigger equations?
- Discuss trigger commissioning criteria
- Validation of new trigger equations. Who and how does one configure a 'trigger equation' for experiment operations.
- High level trigger algorithms in Sub-System Processor (SSP) and/or Global Trigger Processor (GTP)

Coffee break: 15:45 --> 16:00

Session IV:-16:00 --> 17:30
On-line and run control – Session 'leader' Elliott Wolin
Topics:
-- Scaler requirements:
      What signals need to be counted?.
      How often is a scaler event read out?
- Calibration triggers
- Cosmic ray triggers

-- Implementation plan for commissioning tests
      Trigger 'menu' (GUI) development.
      How do we plan to modify a trigger from Run-Control?
      On-Line trigger performance: Efficiency plots; What other trigger analysis is needed to validate the trigger effectiveness during an experiment?

-- Ajourn

Dinner

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