



Online Monitoring Plan
for
PHENIX RICH

presented by

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at

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- slow-control monitoring devices
 - HV voltage / current monitor
 - 640 channels
 - LeCroy 1461N-mod100
 - read-back frequency ~ 1 Hz
 - controlled by ONCS
 - interface to database required
 - temperature sensor
 - 12 channels
 - NS LM35DZ solid state sensor - voltage output
 - read-back frequency ~ 1 Hz
 - Keithley / ADAM readout by ONCS expected



- yet-to-be-specified monitoring devices
 - water level sensor
 - being designed by A.Frawley
 - gas system monitor
 - inlet / outlet flow
 - inside / barometric pressure
 - oxygen content
 - being designed by A.Frawley
 - voltage output expected - Keithley / ADAM
 - alarms / interlocks planned
 - outside flammable gas
 - part of PHENIX common monitoring



- real time monitoring needs
 - event type
 - slow-control monitoring
 - calibration event (pulser / LED)
 - real event
 - histograms
 - sensor outputs as a function of time
 - ADC / TDC for each PMT (5,120 channels)
- real/near time calibration needs
 - access to data stream
 - manipulation / viewing of histograms
 - logging to database