

# DAQ for the AEGIS experiment: highlights

- Requirements were focused on the sociology of small, loosely coupled groups of experimenters working on their respective sub-detectors.
  - ◆ Familiar with either NI LabVIEW<sup>TM</sup> or ROOT, rarely both.
- The system collects both monitoring and run data from various sources in a common transfer format and logs them as ROOT TTrees. Data can be then retrieved and transferred again in the same transfer format.
- The chosen data transfer format was GXML, an XML-based format that can map all LabVIEW<sup>TM</sup> data types.
  - ◆ A reference implementation is available from NI.
  - ◆ We mapped it onto ROOT TTrees.
- A Javascript monitoring data viewer was developed.
- The system has been up, running and storing monitoring and run data since November 11, 2011. The only needed corrections/extensions were related with the handling of large ( $O(10^7)$  members) arrays.
- More details in the poster and in the paper that will follow.