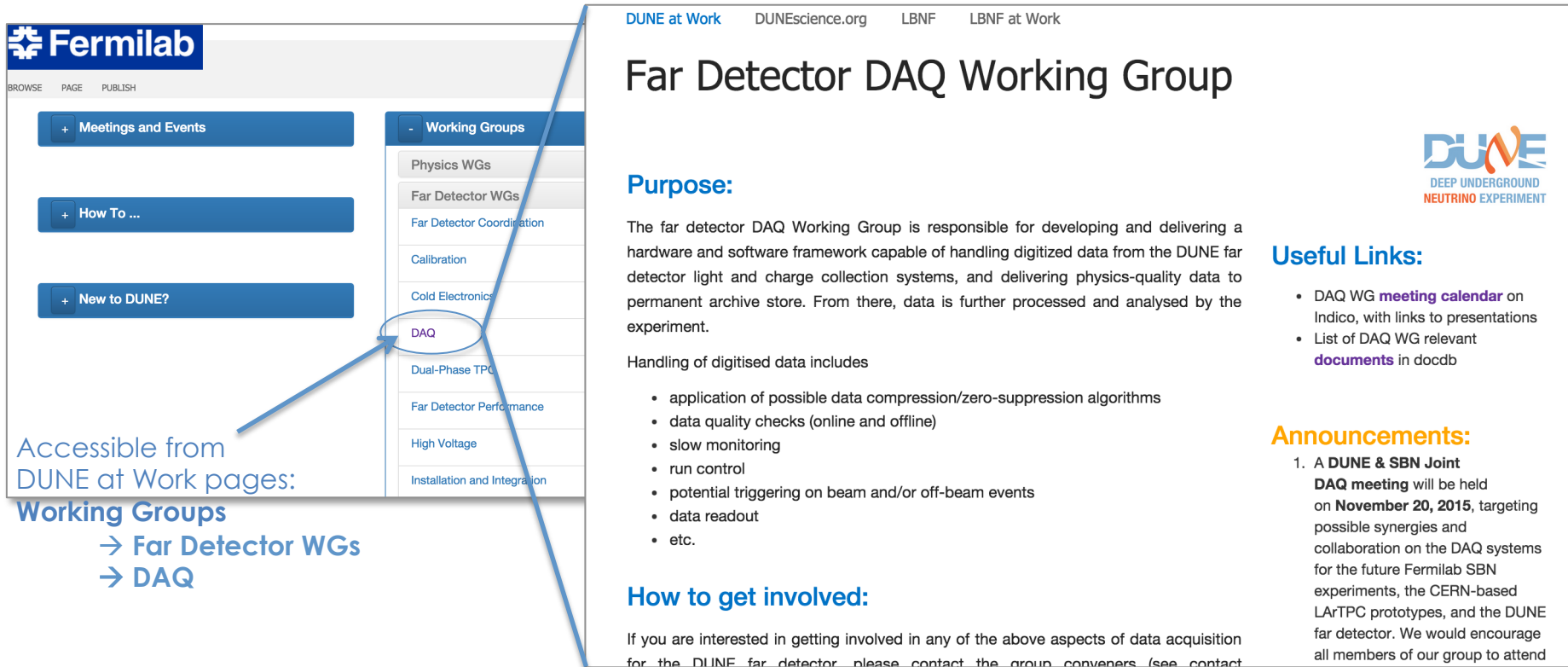


DAQ WG News & Updates (I)

- New website:
<https://web.fnal.gov/collaboration/DUNE/SitePages/Far%20Detector%20DAQ%20Working%20Group.aspx>
 - Live! Asking for volunteer website manager



The image shows a screenshot of the Fermilab website. On the left, a navigation menu includes 'Meetings and Events', 'How To ...', and 'New to DUNE?'. Below this, a 'Working Groups' sidebar lists various groups, with 'DAQ' circled in blue. A blue arrow points from the 'DAQ' link in the sidebar to the main content area on the right. The main content area is titled 'Far Detector DAQ Working Group' and includes a 'Purpose:' section, a list of 'Useful Links', and 'Announcements'. The 'Purpose' section describes the group's role in developing hardware and software for the DUNE far detector. The 'Useful Links' section lists a meeting calendar and relevant documents. The 'Announcements' section mentions a joint meeting with the SBN experiment on November 20, 2015.

Accessible from
DUNE at Work pages:
Working Groups
→ Far Detector WGs
→ DAQ

DUNE at Work DUNEScience.org LBNF LBNF at Work

Far Detector DAQ Working Group

Purpose:

The far detector DAQ Working Group is responsible for developing and delivering a hardware and software framework capable of handling digitized data from the DUNE far detector light and charge collection systems, and delivering physics-quality data to permanent archive store. From there, data is further processed and analysed by the experiment.

Handling of digitised data includes

- application of possible data compression/zero-suppression algorithms
- data quality checks (online and offline)
- slow monitoring
- run control
- potential triggering on beam and/or off-beam events
- data readout
- etc.

How to get involved:

If you are interested in getting involved in any of the above aspects of data acquisition for the DUNE far detector, please contact the group conveners (see contact

Useful Links:

- DAQ WG **meeting calendar** on Indico, with links to presentations
- List of DAQ WG relevant **documents** in docdb

Announcements:

1. A **DUNE & SBN Joint DAQ meeting** will be held on **November 20, 2015**, targeting possible synergies and collaboration on the DAQ systems for the future Fermilab SBN experiments, the CERN-based LArTPC prototypes, and the DUNE far detector. We would encourage all members of our group to attend

DAQ WG News & Updates (II)

- Mailing list
 - Please subscribe to DUNE-FD-DAQ, if you have not yet done so:
<https://listserv.fnal.gov/scripts/wa.exe?SUBED1=DUNE-FD-DAQ&A=1>
 - We are phasing out of using general DUNE mailing list.
- DUNE DAQ survey
 - Thank you to those who filled out the DUNE DAQ Survey!
 - If you haven't yet done so yet, there's still some time. Please do so here by the end of this week:
https://docs.google.com/forms/d/1wfQ1LickBvnpqgPIQ7WKKDdaWzUWaP7bLID3jy_L0I4/viewform

DAQ WG News & Updates (III)

- **DUNE & SBN Joint DAQ Meeting at Fermilab, Nov. 20, 2015**
 - Following the SBND - DUNE meeting that took place in September, there will be a similar event **targeting possible synergies and collaboration on the DAQ systems** for the future Fermilab **SBN** experiments, the **CERN-based LArTPC prototypes** and the **DUNE far detector**.
 - There are potential gains from adopting common solutions and this meeting will focus on investigating these possibilities.
 - Event page is available here:
<https://indico.fnal.gov/conferenceDisplay.py?confId=10599>
 - 20th November, 08:30-13:00 local (Fermilab) time
 - Please attend and participate (in person, if possible, or remotely)
 - If you plan to attend in person, please “register” following the link on the event page

DAQ WG News & Updates (IV)

- New, draft Charge:

“The DUNE DAQ group is responsible for developing and delivering a hardware and software framework capable of handling digitized data from the DUNE far detector light and charge collection systems, and delivering physics-quality data to permanent archive store, for further processing and analysis by the experiment. Handling of digitized data includes application of data compression/zero-suppression algorithms (as needed), data quality checks, triggering (as needed), and data readout.”

- Being iterated with Tim and Jim
- Feedback is welcome

DAQ WG News & Updates (V)

- Kick-off of DAQ Simulations Task Force!
 - Charge: Develop a framework for implementation, validation, optimization, and comparison of trigger and compression algorithms
 - Will be working closely with LowE/SNB, Cosmogenics, Atmospheric, and Nucleon Decay groups and need their valuable physics inputs
 - **Please contact DAQ WG coordinators ASAP if you're interested in getting involved**
 - If you have indicated your interest in this at the DAQ census poll, expect to be contacted in the next few days.

Today's Agenda

- Supernova event compression studies for MicroBooNE
- 35ton DAQ Status Update
- Continued discussion on Networking \leftrightarrow DAQ philosophy