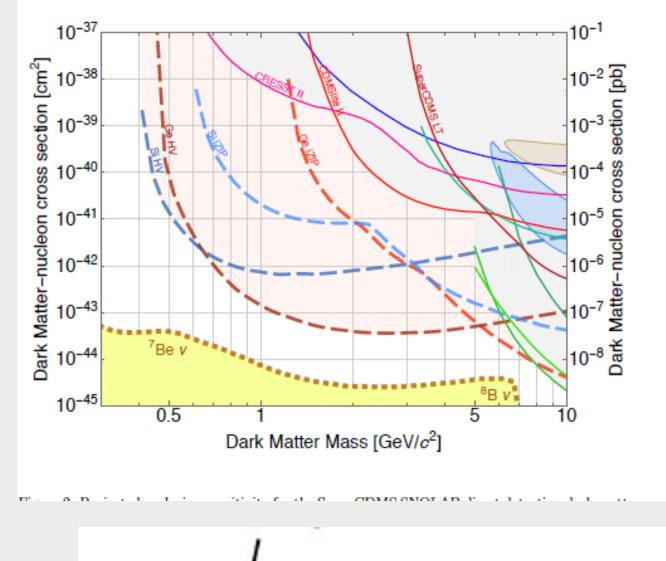
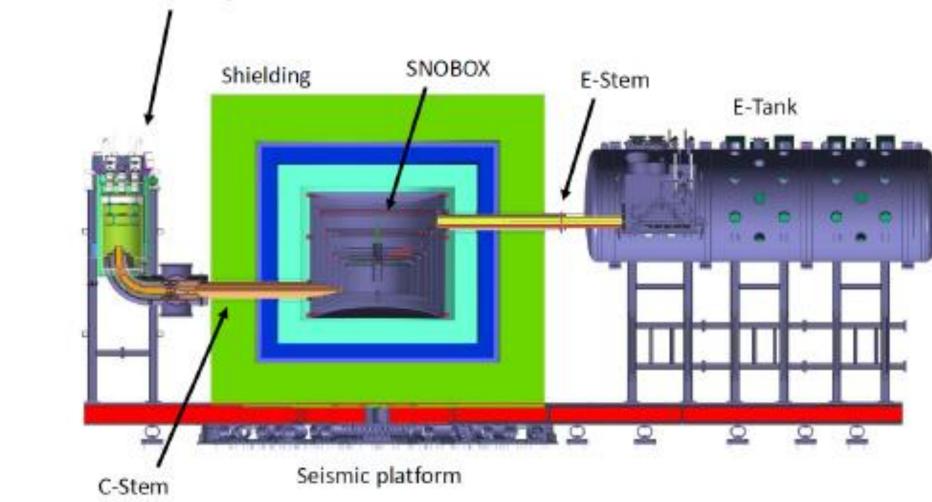
# SuperCDMS SNOLAB Data Acquisition System

## The SuperCDMS Experiment



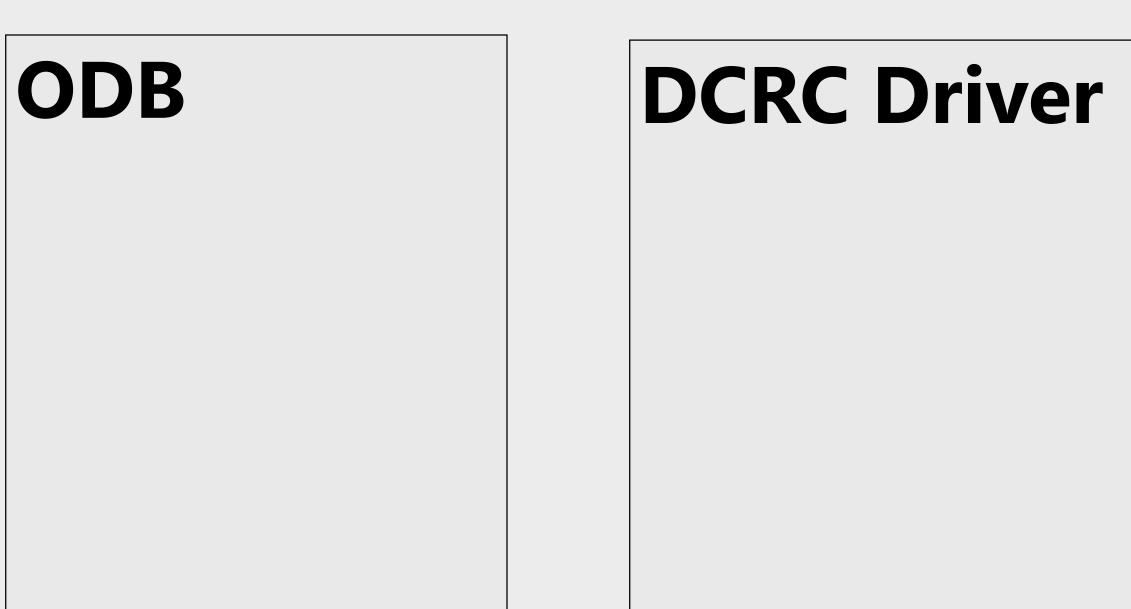


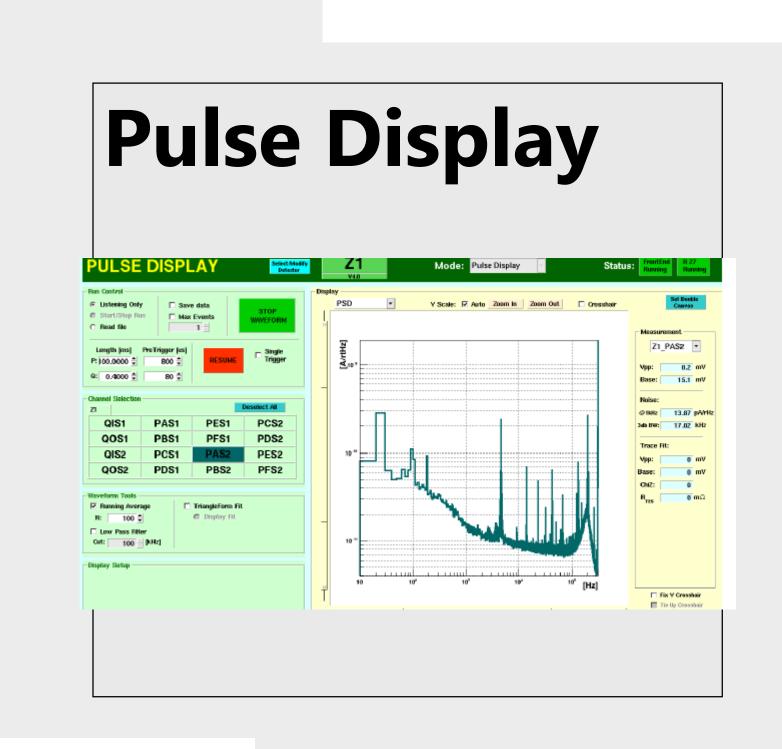
# References, Acknowledgements

## Data Acquisition System

## Design Requirements

#### Framework





L1: Inside DCRC

L2: Inside MIDAS

L3: Post-MIDAS

(if needed)

L1 Trigger Logic

L3 Event Filter (Optional)

Detectors

(24 total)

Data Quality & Alarm

Cluster (4 total)

Environmental

Monitoring

Slow Controls

Database

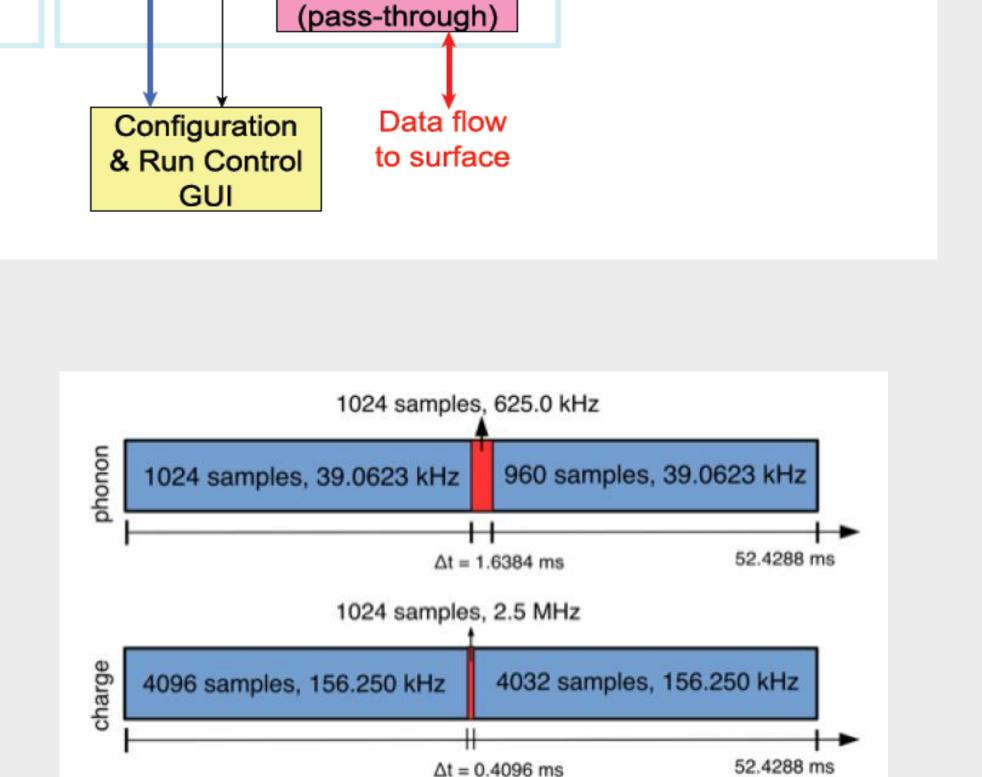
**Data Quality** 

Monitor

Environmental

data from

experiment



 $\Delta t = 0.4096 \text{ ms}$ 

197. Campling anonda in the pre pulse pulse and post pulse region for phonon and is

Underground DAQ computers (9 total)

Gateway computer not shown

MIDAS

Alarm

Database

Front-end Computer (3 total)

Back-end Computer (1 total)

Front-end

Collector

Trigger

Event Builder

Level 3

Trigger

Environmental

Monitoring

Alarms



#### DAQ Hardware?

### Environmental Monitoring