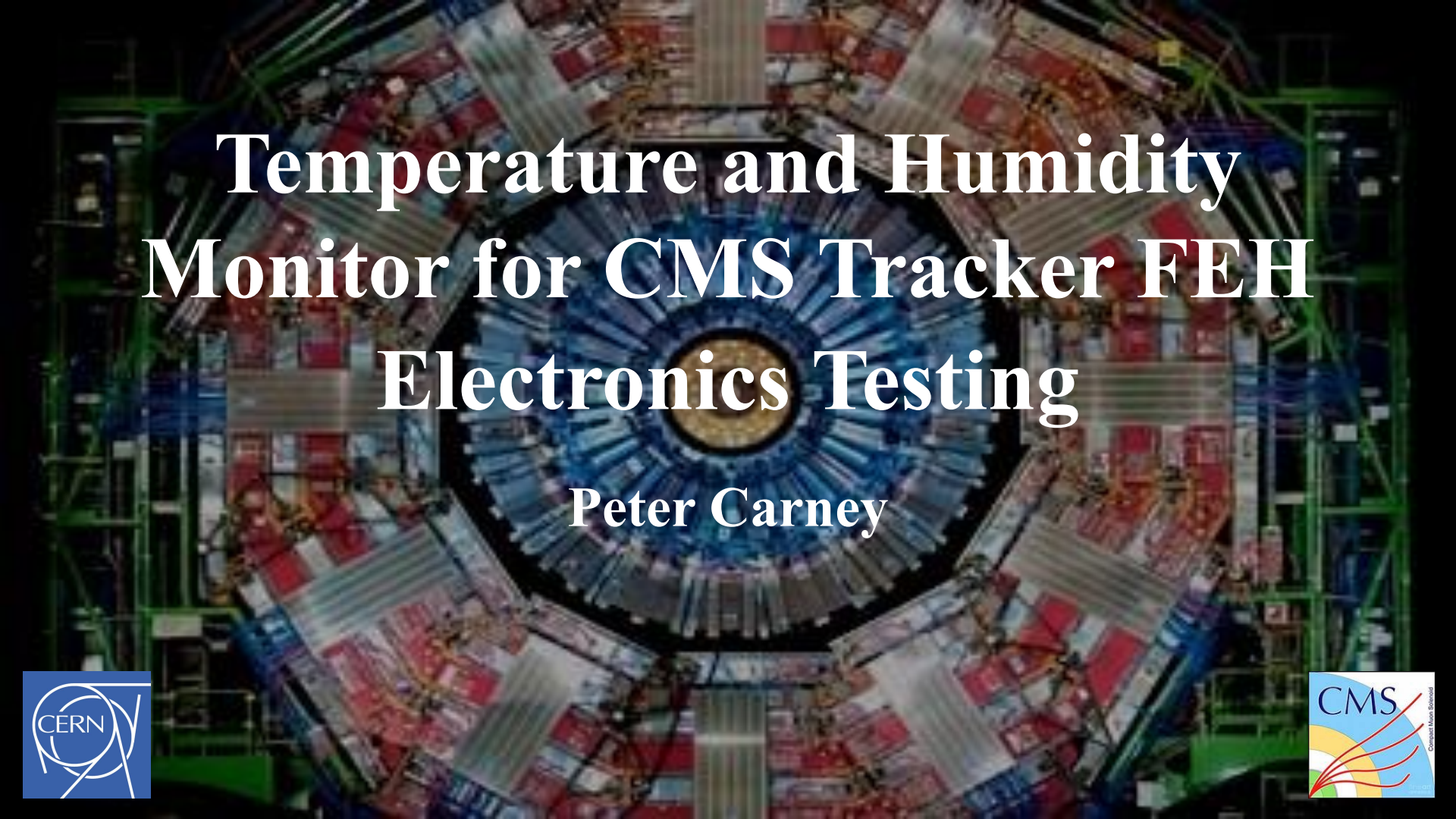
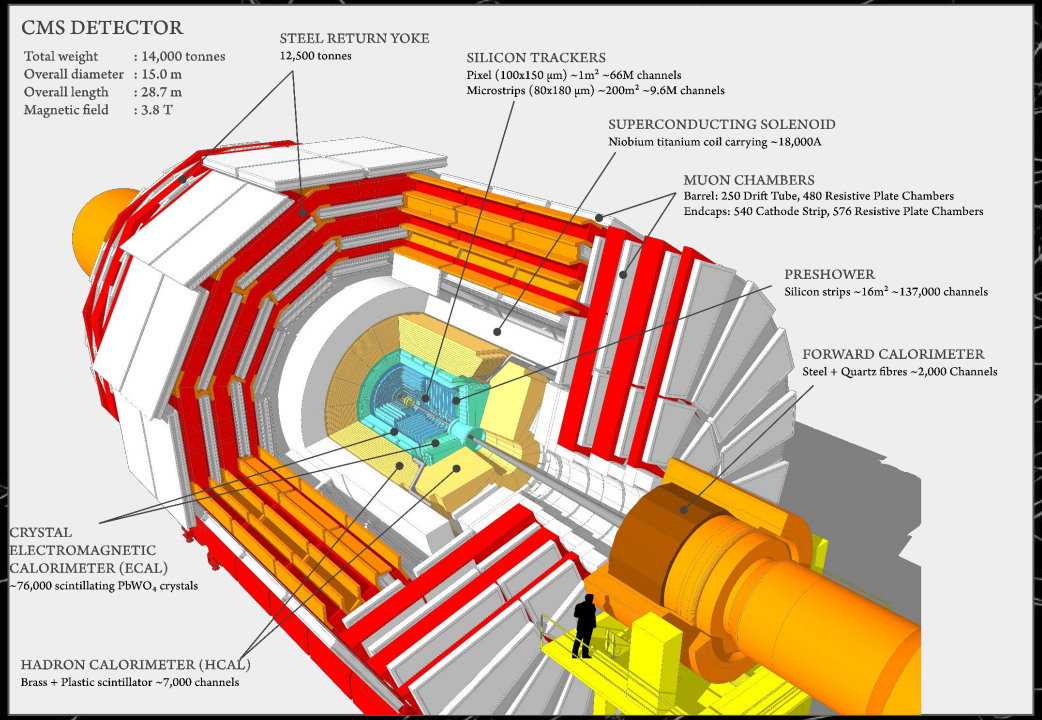
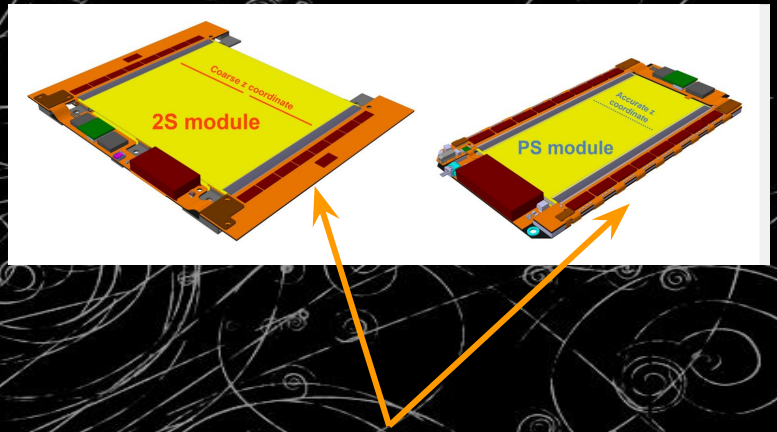


Temperature and Humidity Monitor for CMS Tracker FEH Electronics Testing

Peter Carney

CMS Tracker System



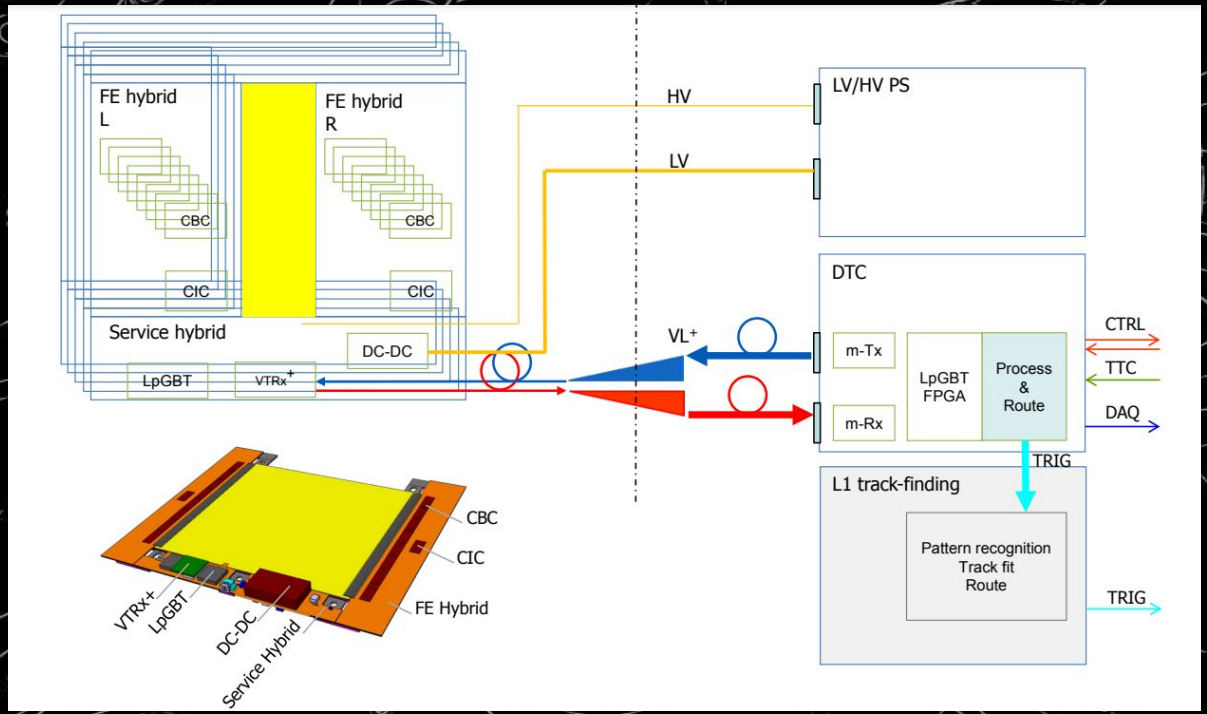


Front End Hybrid Electronics

- Used to gather and deliver binary data from silicon sensor
- Phase-2 upgrade desires less bulk electronics

Testing of the FEH Electronics

- Tests of the FEH Electronics functionality will be done at - 40° C and at room temperature.
- Temperature / dew point monitor needed to conduct testing.



Creating Temperature Monitor

Accomplished

- Configured AlmaLinux9 on my Laptop
- Got InfluxDB and Grafana Working

Next Steps

- Meet with collaborators to see how we proceed with system testing
- Familiarize myself with GUI
- Implement monitoring system into testing site
- Write script to give automatic signals/warnings depending on temperature.