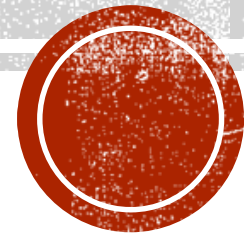
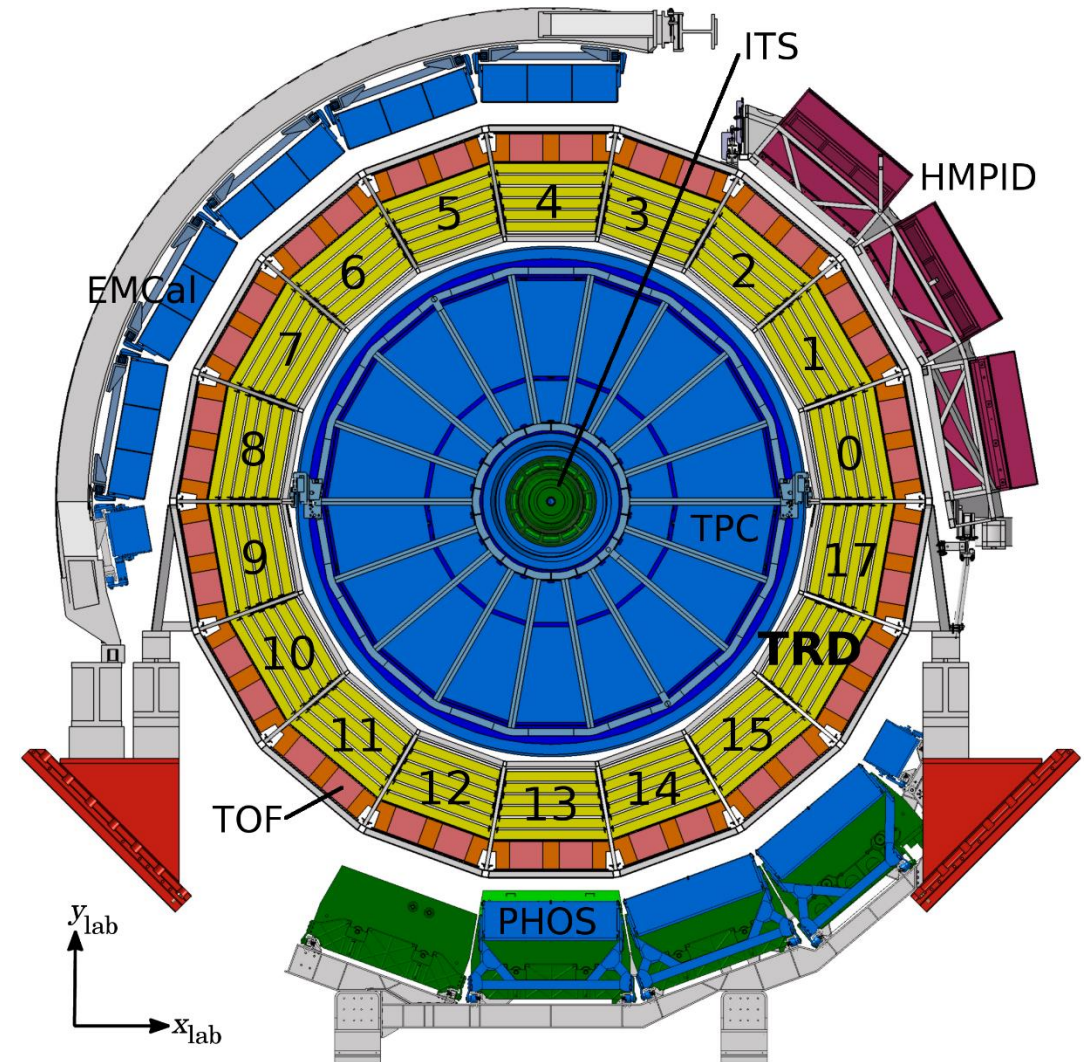


MONITORING ON ALICE TRANSITION RADIATION DETECTOR IN LS2

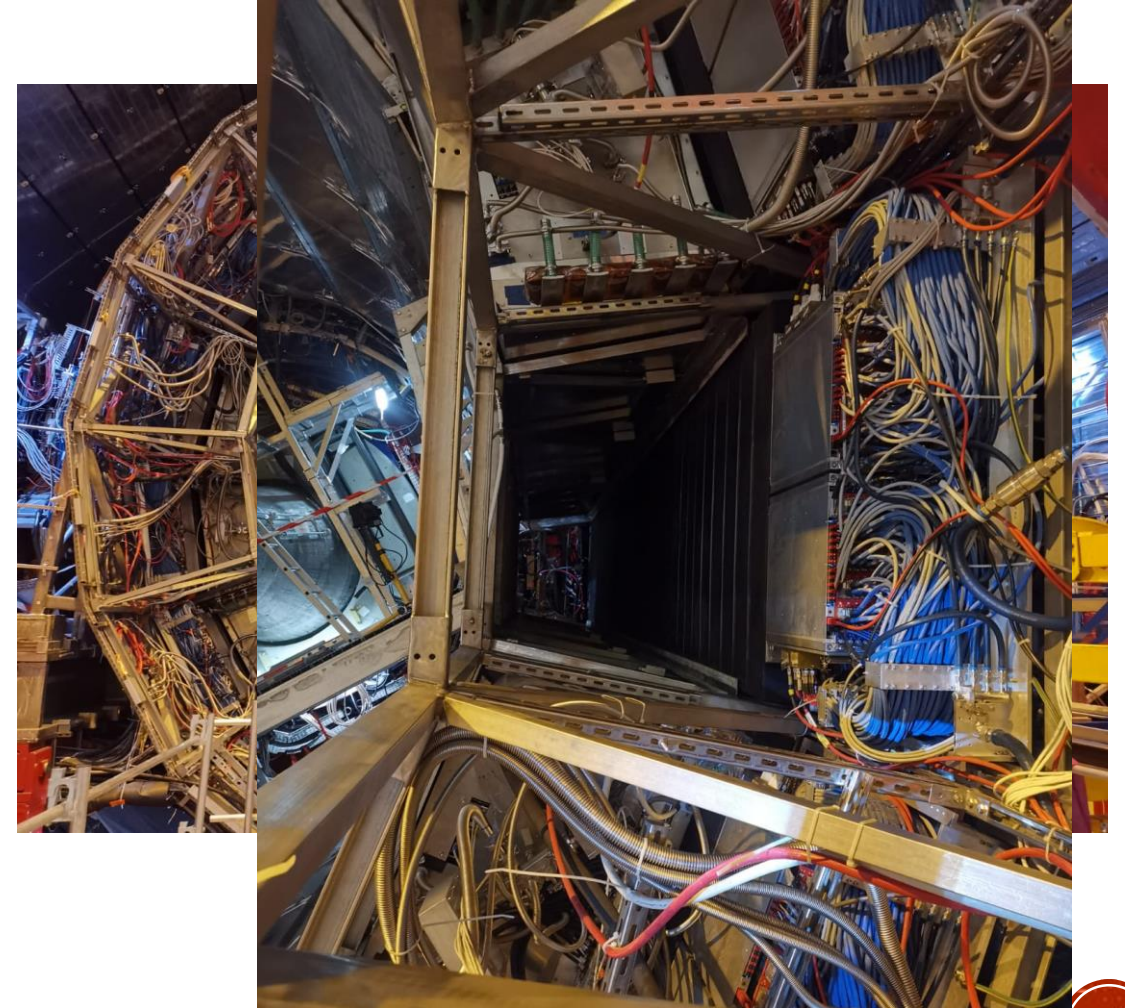


ALICE EXPERIMENT

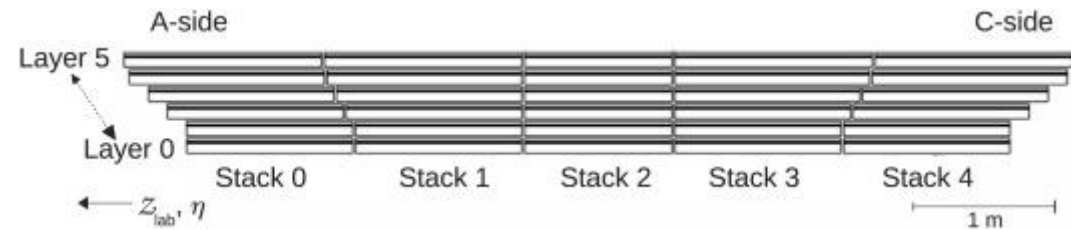
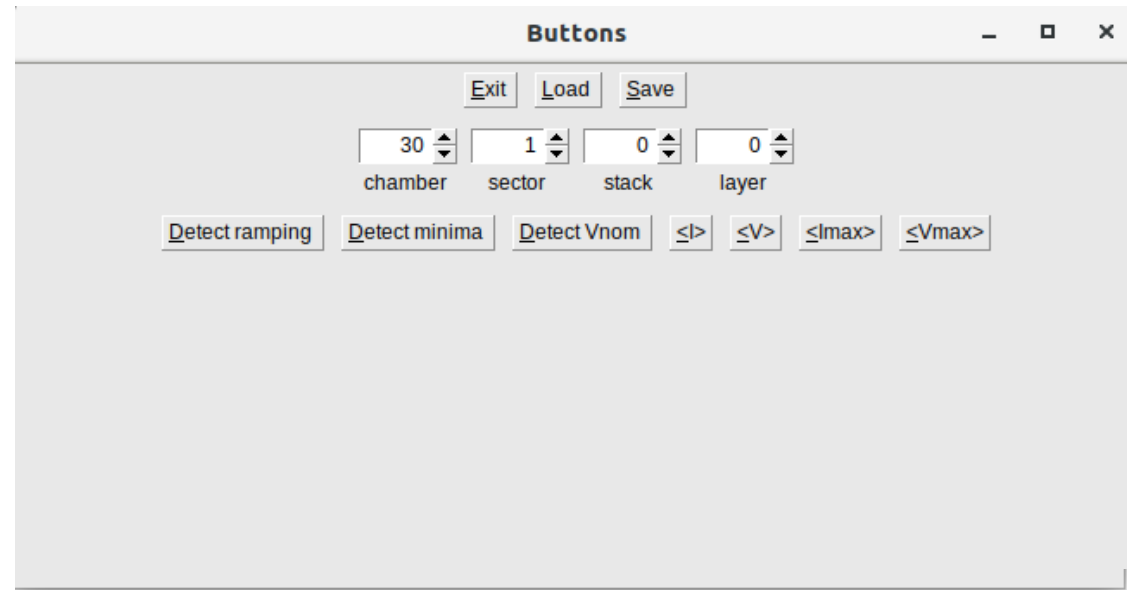
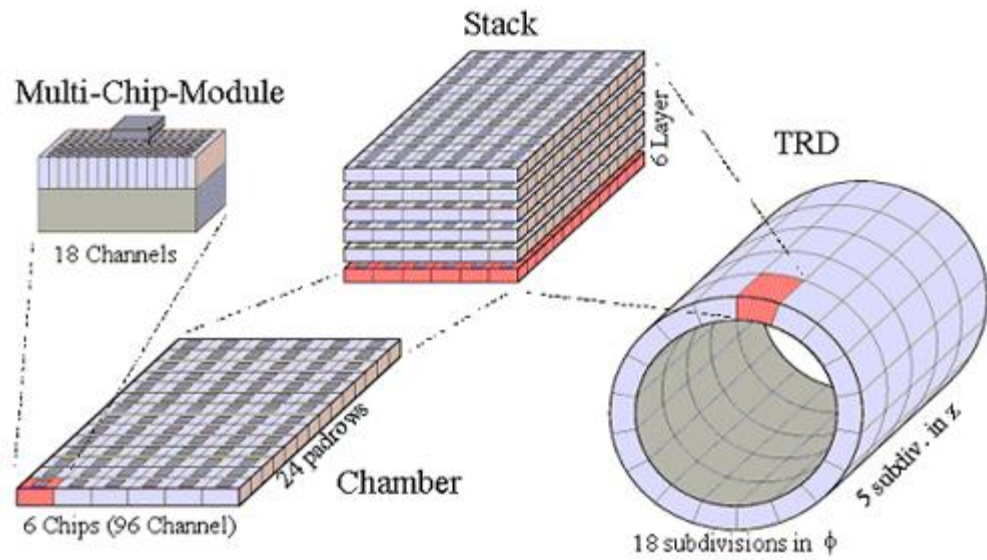
- **A Large Ion Collider Experiment**
- Designed to study the QGP
- Inner Tracking System
- Time Projection Chamber
- Transition Radiation Detector
- Time Of Flight
- High Momentum PID



TRANSITION RADIATION DETECTOR

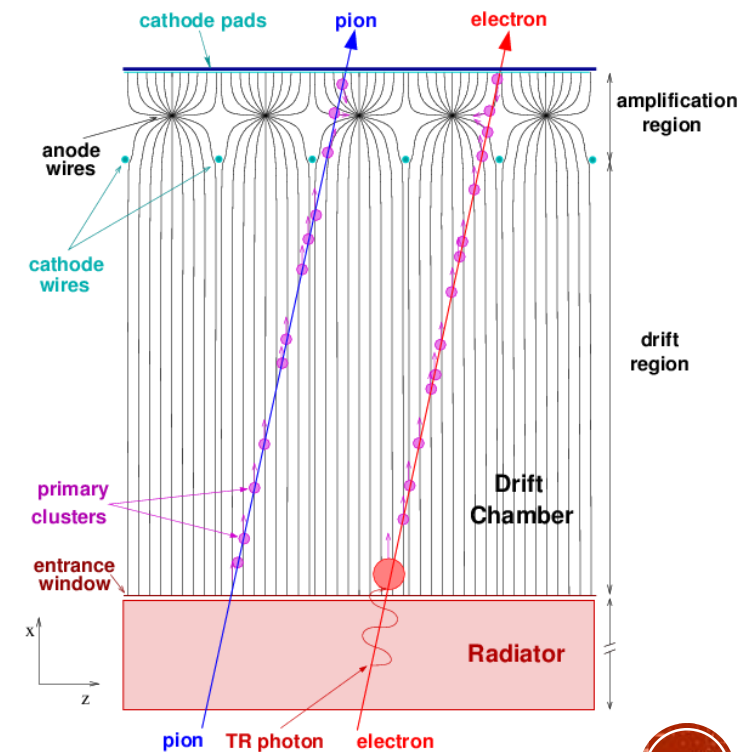


TRD



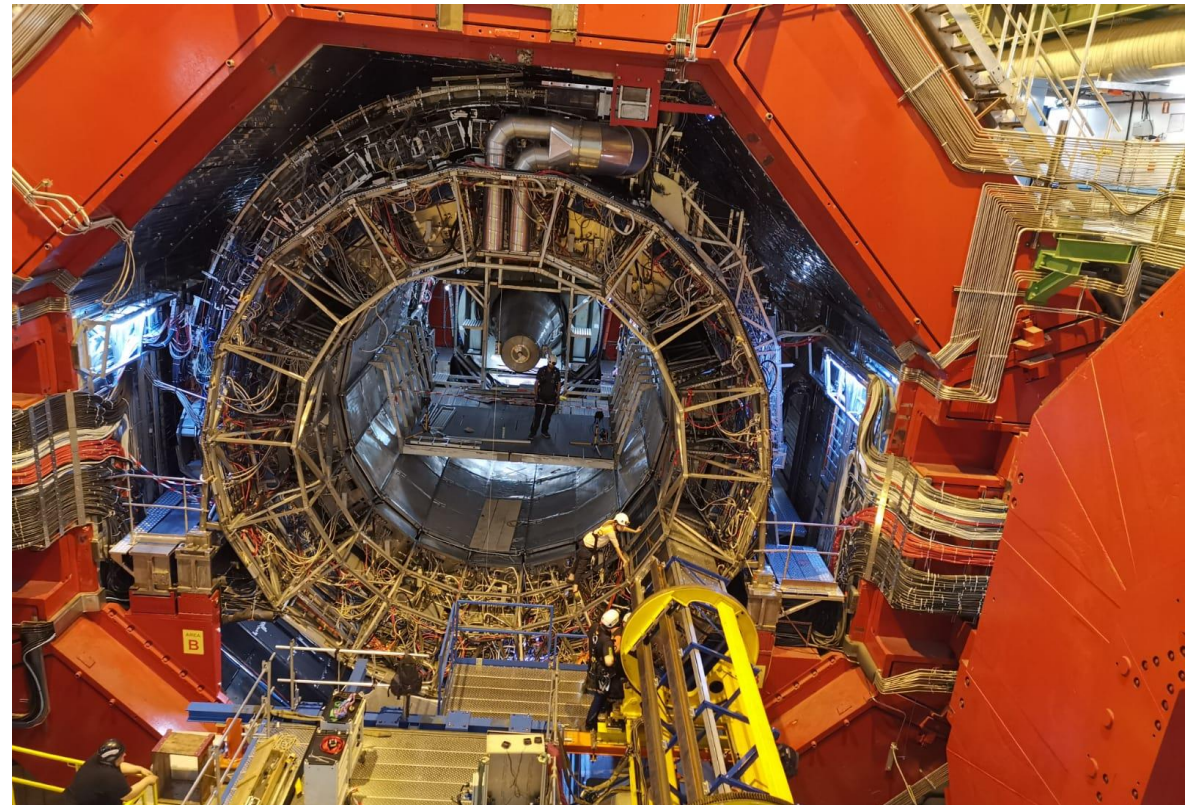
HOW DOES IT WORK?

- Gaseous Ionization Detector
 - Atoms and molecules are ionized by particles which have enough energy
 - Xe, CO_2 85/15
- 3cm drift region
- A minimum ionizing particle liberates 275 electrons per cm
- Needs its own gas System
 - Circulation
 - Constant pressure



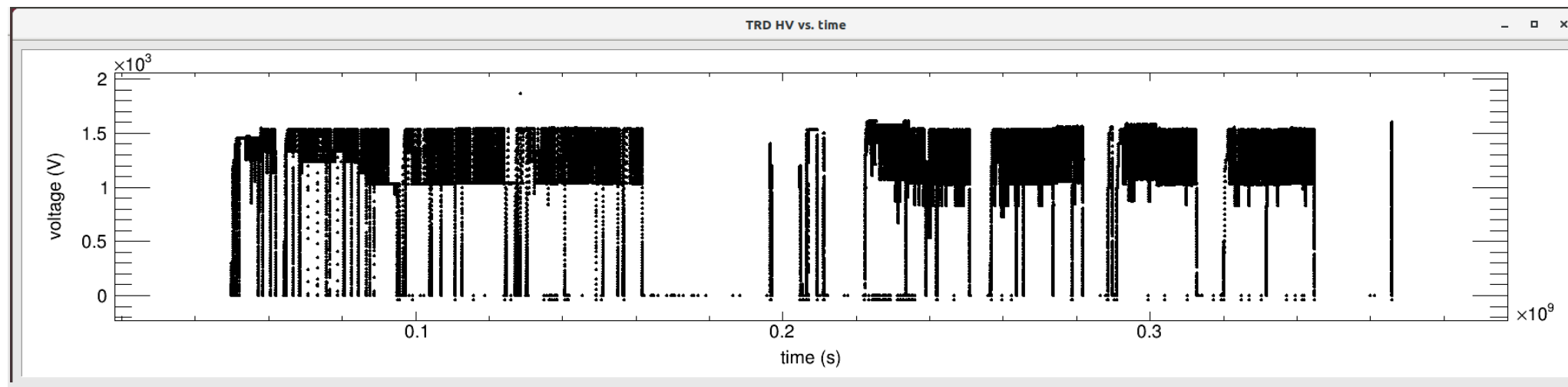
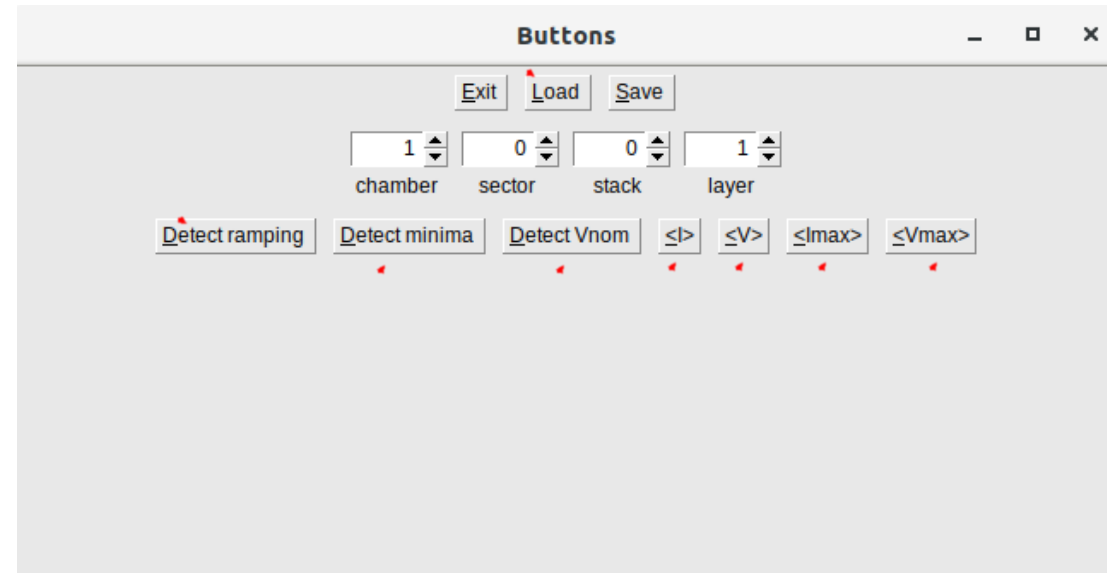
DURING THE SHUTDOWN

- Supermodules
 - Get extracted
 - Repaired
 - Reinstalled
- Capacitors
 - HV-System
 - Bad Quality



HV MONITORING

- Retrieves data of the chambers
- Helps interpreting it



OTHER THINGS I DID

