

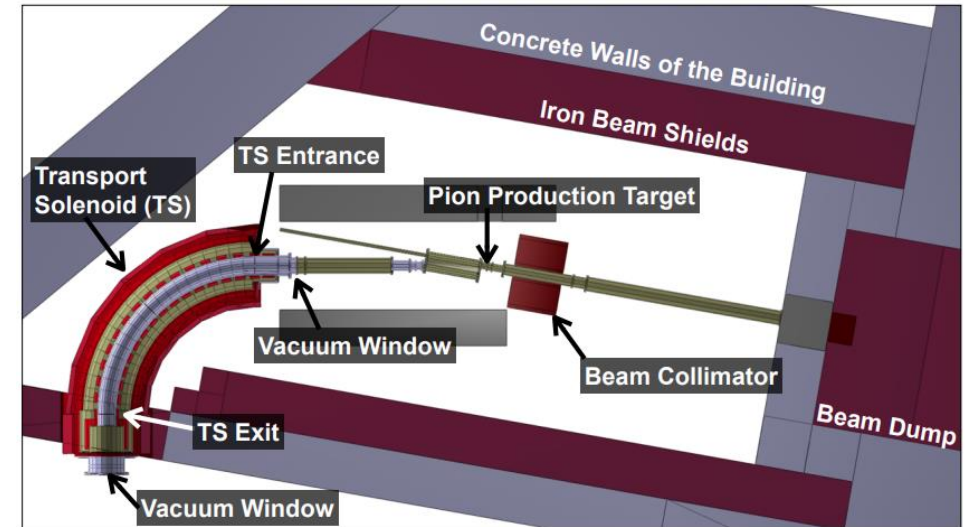
Progress of Readout Unit (RU)



- The COherent Muon to Electron Transition (COMET) experiment

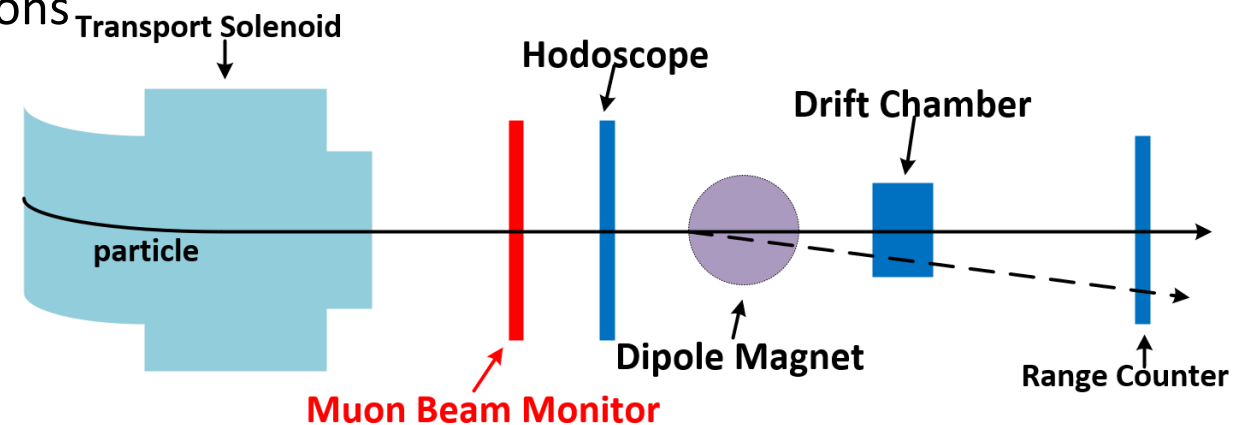
- COMET Facility

- Search for CLFV ($\mu^-N \rightarrow e^-N$)
- Single event sensitivity of 3.1×10^{-15}
- Muon beam
- Phase- α : understand the proton beam



- Muon Beam Monitor

- Measure the timing and position of the muons
- Total size is 90 x 90 cm²
- 128 + 128 scintillating fibers
- Cross-sectional area of fiber is 1x1 mm²
- Spatial resolution of 1 mm
- Masked with aluminum foil



Progress of Readout Unit (RU)



- Readout Electronics

- 4 front-end electronics modules
- Front-end electronics readout modules
 - SiPM Carrier
 - Place the SiPM
 - photoelectric conversion
 - FEB Board
 - Amplification of the signal
 - Initial data process
 - DAQ Board
 - Data acquisition

- Test Results

- CSNS proton beam test
- Clear beam pulses with an interval of about 40 ms

