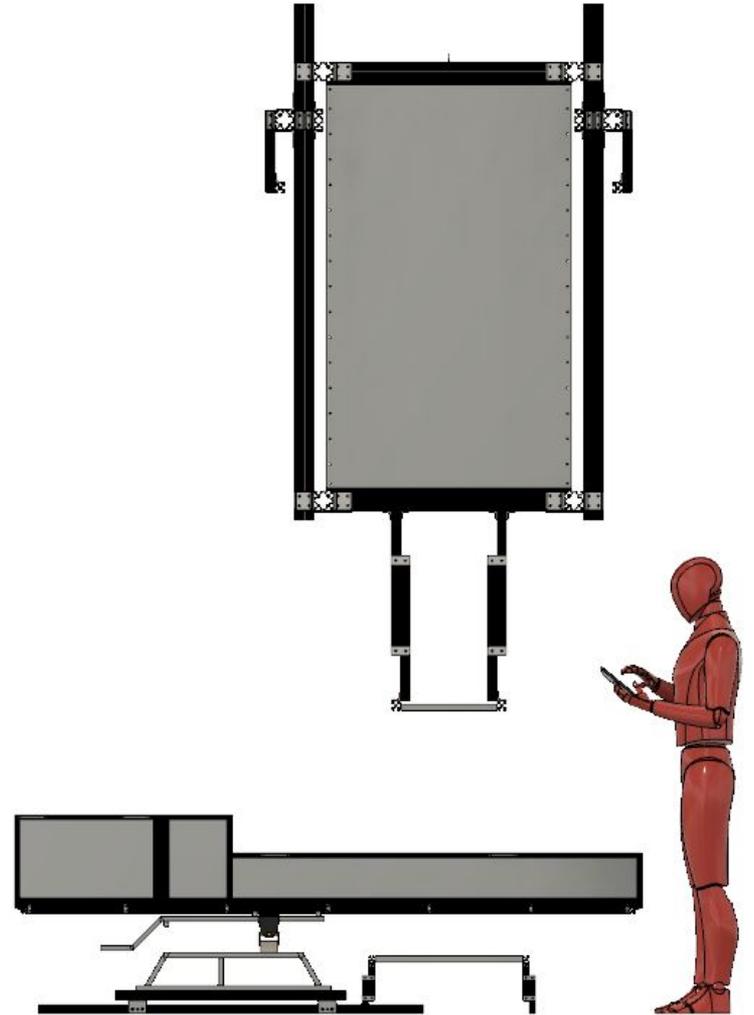


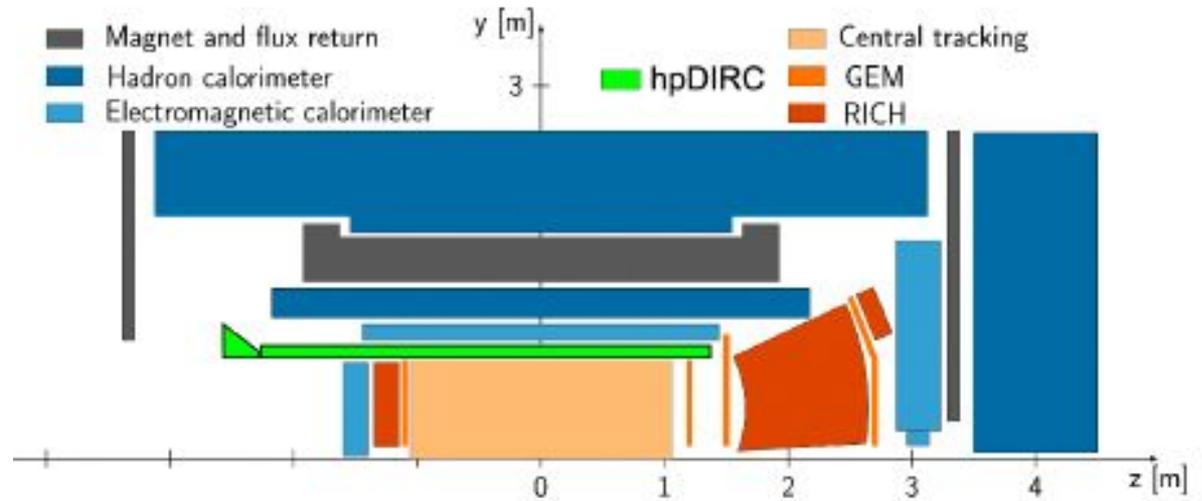
Master's Thesis Overview

1. Introduction
2. DIRC
3. Tracking & Momentum Tagger
4. Cosmic Ray Telescope
5. Dark Box
6. Proof of Functionality and Summary



Introduction

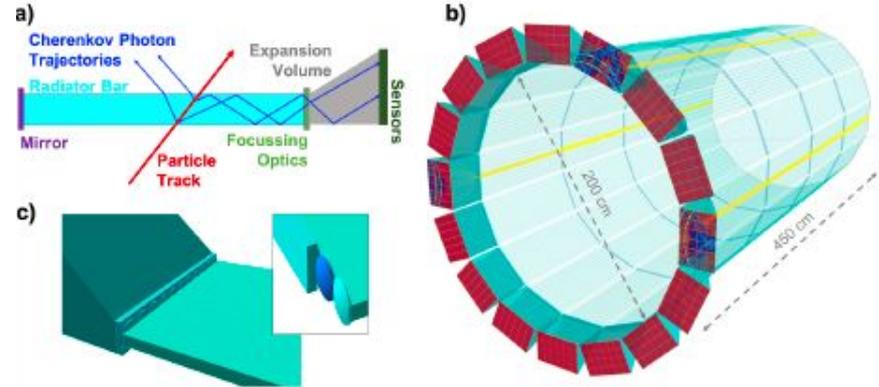
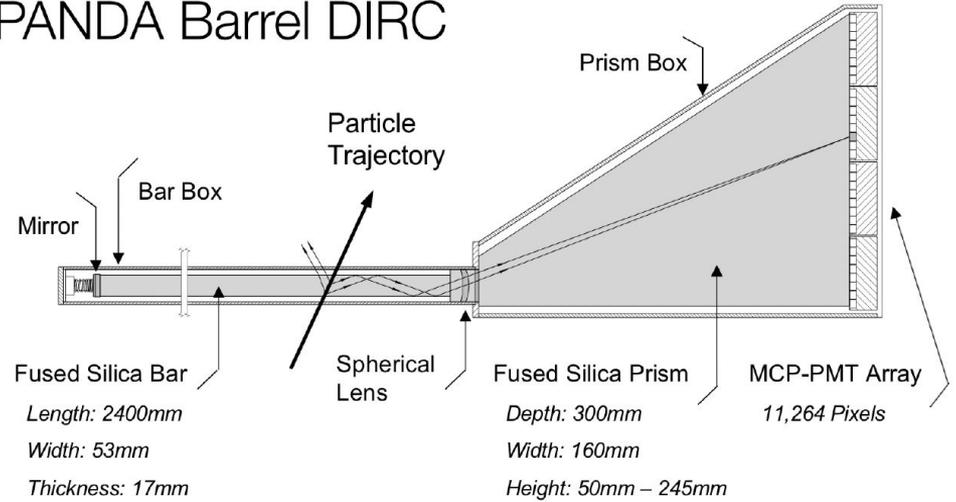
- Nuclear Physics
- EIC
- Cherenkov Radiation
- Cherenkov Detectors
- Cosmic Rays
- CRT and parts



PANDA Barrel DIRC

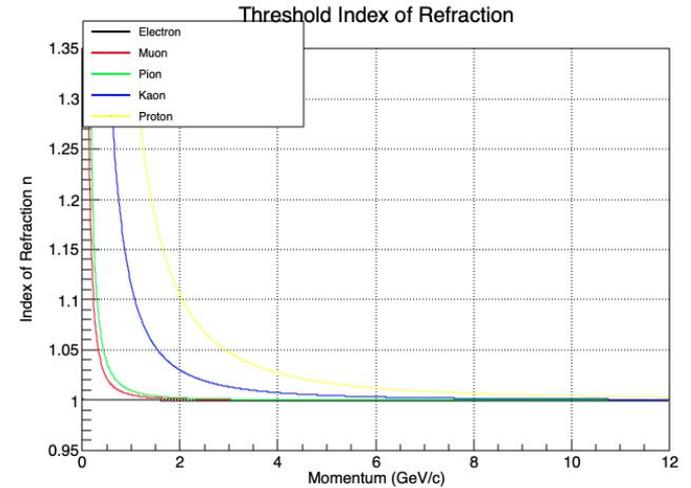
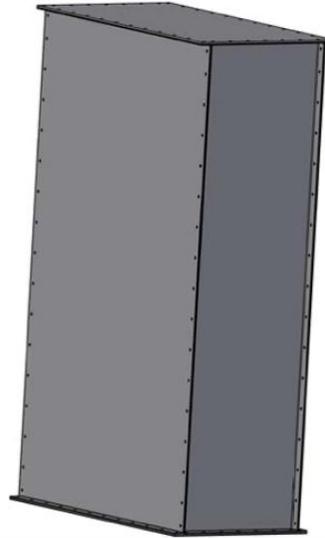
DIRC

- Radiator
- Expansion Volume
- Lens
- Mirror



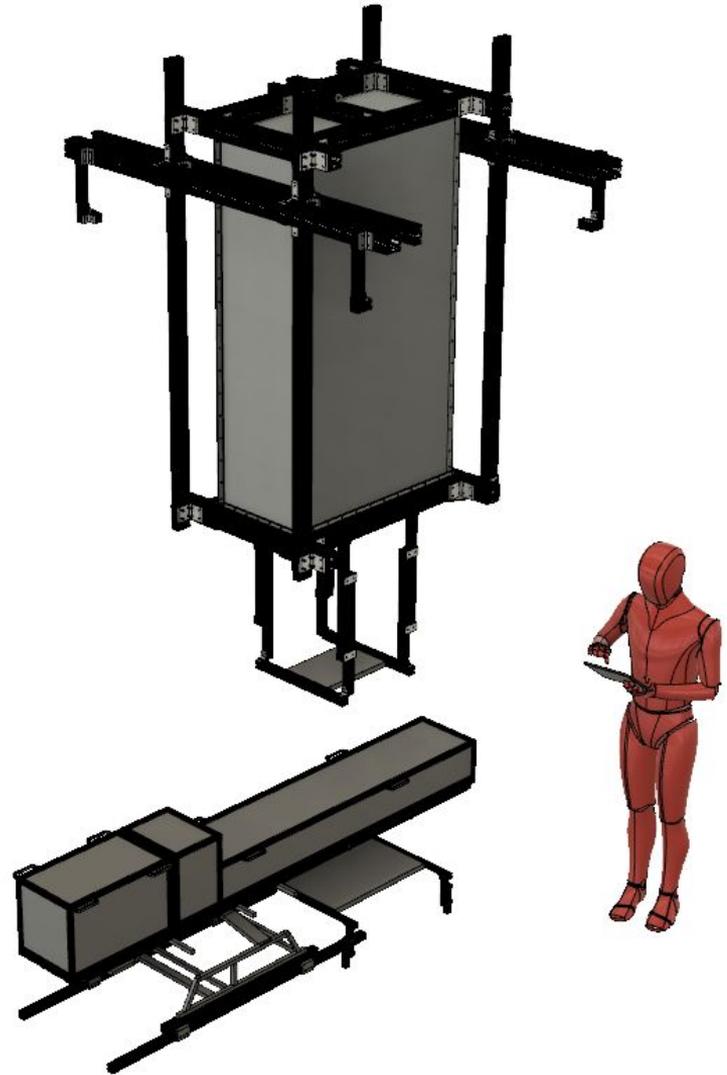
Tracking & Momentum Threshold Tagger

- Tracking
 - GEM / μ -RWELLS
 - Angular Resolution?
- Momentum Threshold Tagger
 - Functionality
 - Support Structure



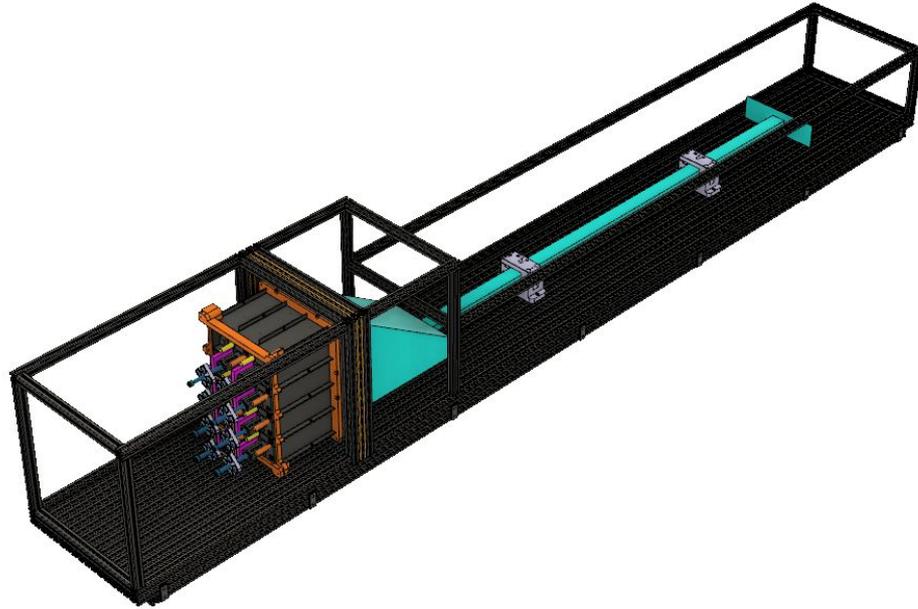
Cosmic Ray Telescope

- Structure
- Threshold Tagger
- Trackers
- Bar and platform
- DAQ communication



Dark Box

- DIRC construction
 - Light tight
 - Weight
 - Motion Platform
- Inner devices
- Testing



Proof of Functionality and Summary

- 1 muon
- Tracker 1 blip
- Tracker 2 blip
- PMT blip(s)
- Tracker 3 blip
- All DAQ systems (excluding tagger connection) can communicate and relay hit times accordingly

