

# pfRICH calibrations (slow control / safety)

- Aerogel
  - Nominal refractive index, forward scattering, transmission
  - Tile boundaries, 3D surface mapping
  - Loss of transparency
- Mirrors
  - Nominal reflectivity
  - 3D surface mapping
  - Reflectivity loss
- Gas system
  - Over-pressure control
- HRPPDs
  - PDE, nominal timing resolution, nominal HV settings
  - Alignment in the sensor plane
  - HV settings in B-field, gain adjustment, detection efficiency loss, DCR change, Lorentz effect, t-offsets

# pfRICH calibrations (slow control / safety)

- Readout
  - Nominal timing offsets
  - Thresholds (noise dependent), dynamic range adjustments, timing offsets, synchronization
- (Water) cooling system
  - Under-pressure control, temperature monitoring (also safety)
- Alignment in the experiment
  - Nominal position
  - Adjustment with respect to the tracker, small positional changes control (?)
- Environmental changes
  - Temperature, atmospheric pressure changes accounting