

Internal note on the DS20k calibration system

The current version (26.11.2020) of the note is available at this [link](#):

- Purpose of the calibration system

- The baseline design (from beginning of 2020)

- Detailed simulation study

- Foreseen evolution of the system

- Annexe: full details of the simulation study

The purpose of the note is to collect in a single document the motivations, the specifications, the technical details about the calibration system. **It will evolve until all parameters are fixed.**

Questions/Next

- Position of the tubes vs the TPC walls, Veto: need TPC CAD to be integrated

- Calibration with electrons/photons below the TPC: TPB thickness

- DD-gun and sources: finalise the pipe system (diameter)

- Readout segmentation: any impact on the calibration system ?

- Details on the motor boxes (components, layout) and glove boxes to be added

Next

1. Note was sent out end of November to the authors; no feedback.

Is any feedback expected ?

2. Make this version of the note as a first version which will evolve and store it in an official repository (doc-db ?) ?

3. Update it regularly (six months ?) or when a decision is taken.