

INTT dead channel map software for MC and Reco

MDC2 calibration tasks:

- [dead channel map implementation](#) (with lots of help from Jin Huang)
 - *The framework is there, just need to be updated to run.*
 - [Noisy channel is treated as dead channel because of masking](#) (as in FVTX)
- Alignment/de-alignment
- Other tasks?

Map generator: [calibrations/Tracking/INTT/macros/Construct_DeadMap.C](#)

- Right now: poisson randomly generated dead strip with a fixed mean.
- **1% dead channels for MDC2 or smaller??**

The map is written in XML file with the following format for each layer :

Form("INTT_%02d_%d_%03d_%03d", ladder_phi, ladder_z, strip_z, strip_phi)

- ladder_phi: sensor index in phi for each layer
- ladder_z: sensor index along Z-axis or each layer
- strip_z, strip_phi: strip index in each individual sensor.

These indexing are what's defined and used in the MC and tracking software.

- real dead channel map in our custom format need to be translated that to a XML file with above indexing via above map generator.

The map is stored at: [\\$CALIBRATIONROOT/Tracking/INTT/DeadMap/](#)

- Automatically loaded when running Fun4All for reconstruction.