



# Firmware Updates

Nico Giangiacomi  
University and INFN Bologna

# ROD Firmware work-in-progress

1) Separate **data-taking** and **Calibration** firmwares



2) **Stabilize** firmware **generation**



3) **Cleaner merger** in PIXEL firmware



4) (Major) change in **git structure**

5) **Consolidate** new FW loading **procedures**

6) **Smart L1ID Forwarding** FW



7)  $\left( \text{Create a } \mathbf{ROD \text{ fw test-bench}} \right)$

# ROD Firmware work-in-progress

## ROD SLAVE FIRMWARE CLEANING

- Removed **INMEM Fifo** (originally meant for debugging)→ not used at all
- To do: remove **modebits**

## SMART L1ID MECHANISM

- Tested with different slots → ~**100% busy**, dependency on FMT Mask
- Problem solved this morning, **EOE** flag was not correctly handled when mechanism was enabled → **FW generated and working correctly**, more time needed to collect data