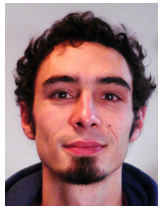


The poster is showing three main topics:

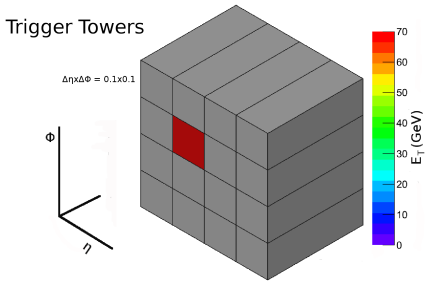
1. The Liquid Argon electron/photon calibration
2. The LAr - Trigger Upgrade and the in-situ demonstrator
3. Recent beam splash events

The **electron/photon calibration** comprises several steps:

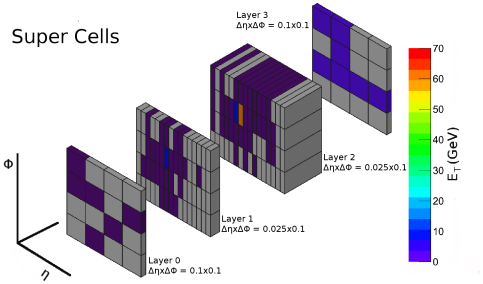
1. Reconstruction optimisation of electrons/photons using a multivariate technique
2. Response equalisation in calorimeter layers in data and simulation
3. Estimation of passive material upstream the calorimeter via longitudinal shower profiles
4. Determination of absolute energy scale using $Z \rightarrow ee$ events

LAr - Trigger Upgrade and the in-situ demonstrator:

- The LAr - Calorimeter trigger architecture will be upgraded before Phase I in order to maintain reasonable trigger rates at high electron/photon efficiency
- Therefore a concept of "Super Cells" compared to the existing "Trigger Towers" will be used
- The new architecture will be tested during Run-2 with an in-situ demonstrator that was installed in 2014



a) Existing Method



b) After Upgrade

Splash Events:

First Beam Spash events were recorded in the beginning of April which are a good instrument to spot non-uniformities in the detector response