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# Setting up an environment to monitor and analyse ATLAS Tile Calorimeter detector control system temperatures

The purpose of the work is having a solid and flexible environment of web interface, to rich that a well set environment is invaluable for Tile-in-One (Tio). Plugin based system for assessing the quality of data and conditions for ATLAS Tile Calorimeters is known as the Tile-in-One. The TiO is a collection of small sized independent web tools called plugins, designed to make it easier for a user to evaluate Tile Calorimeter (TileCal) data. TiO platform aims to integrate individual TileCal web tools into a single common services and data, as old interfaces are slowly falling behind and are harder and harder to maintain. The TiO web platform should allow large flexibility and eade of maintenance so that it would be friendly to the plugin developers as well. The set-up of an environment was done in a way that it can query Data Control System (DCS) to provide temperature data through a dedicated interface called DCS Data Viewer (DDV). Based on the possibility to query those data, new environment is being developed under the following strategy: Centos 8 was installed inside the virtual box to easily access CERN internal network. This strategy ensures that DDV tool is used very well to query the Tile DCS temperature data which is subsequently transformed to a form suitable for the visualizing library.The visualization tool allows use to interact with the plots. Currently the set-up is done for easy access to the network and since this is on the development a status of a drawer is shown. The focus is having stable environment and concentrated on finding an intuitive way to display not only the status of one particular module, but the whole detector as well.

## Apply to be considered for a student ; award (Yes / No)?

Yes

## Level for award;(Hons, MSc, PhD, N/A)?

Msc

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