Summary

What is this contribution about?

This contribution is about charge calibration of LHAASO-WCDA, which is a ground-based air-shower detector array and conceived for investigating steady and transient VHE gamma-ray sources located at the northern sky from 0.1 TeV to 30 TeV.

Why is it relevant / interesting?

As the cornerstone of physical analysis, the accuracy of charge calibration directly affects energy reconstruction and Gamma-ray/Proton discrimination of LHAASO-WCDA.

What have we done?

We have developed relatively complete off-line charge calibration method and detection efficiency calibration method, which can accurately connect signals of four types of PMTs used in LHAASO-WCDA, so as to achieve the purpose of combining three pools into one uniform and stable detector array.

What is the result?

The ratio of four types of PMTs and unevenness of 1800 detector cells in the first two pools of LHAASO-WCDA are presented.