## Workshop on Machine Learning for Analysis of High-Energy Cosmic Particles



Contribution ID: 24 Type: Talk

## Deep Learning applied to CTAO LST-1 and the difficulty to go from simulated to real data (Remote)

Tuesday, 28 January 2025 12:15 (15 minutes)

GammaLearn is a project developing deep learning solutions for the Cherenkov Telescope Array Observatory (CTAO) data analysis. Its first application is event reconstruction based on images acquired by the Large-Sized Telescope (LST-1), currently under commissioning at La Palma.

In this talk, we present a review of the project: the architecture  $\gamma$ -PhysNet we have developed to tackle this multi-task problem, the results obtained on simulated and real data, as well as solutions developed to compensate for some of the issues arising from data vs simulation discrepancies.

## **Type of Contribution**

talk

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