

Calibration of signatures from electromagnetic showers in the CMS calorimeter with machine learning

ML4Jets 2026

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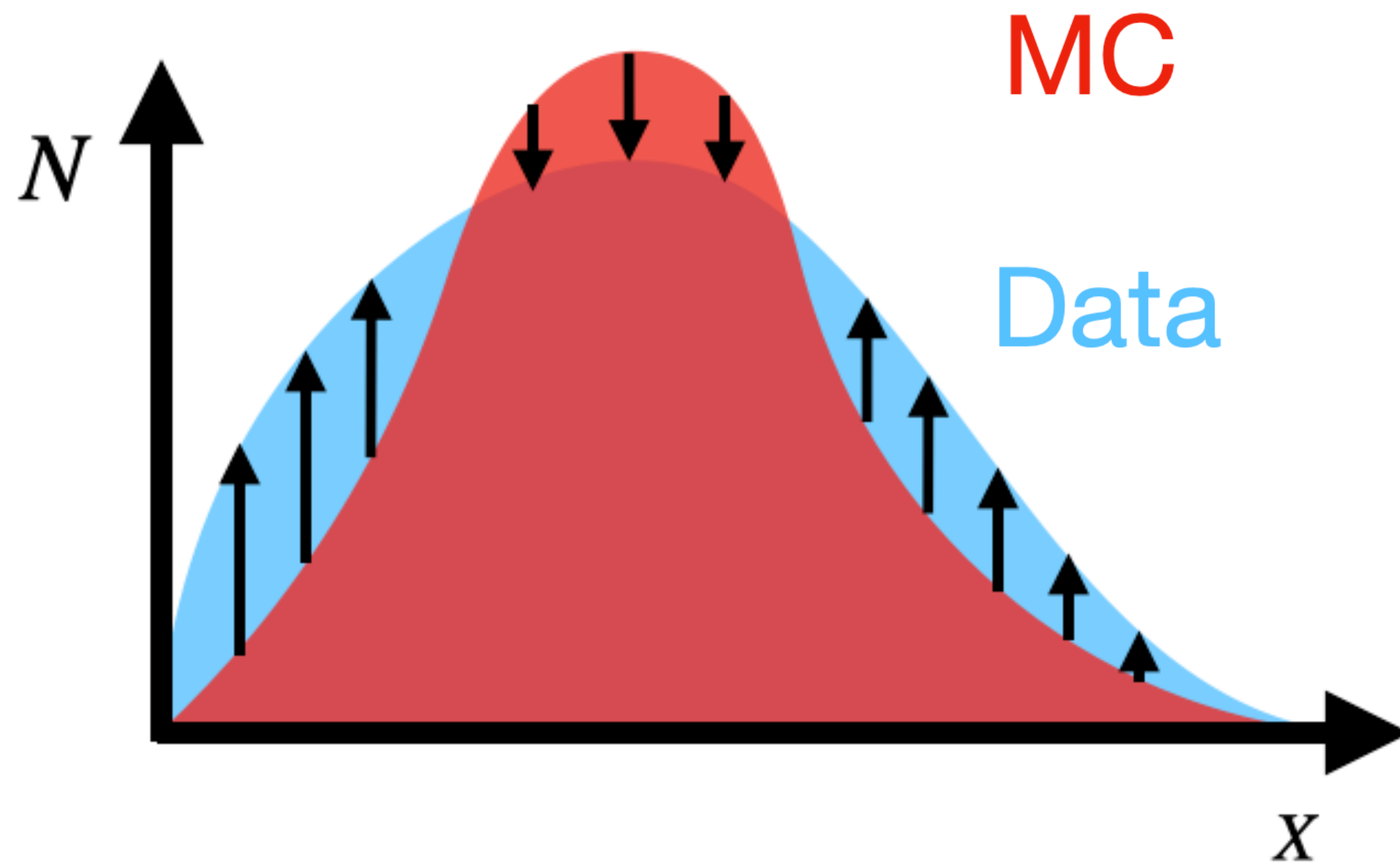
Hot off the press → [2609.15](#)

How can we correct the PID mismodeling?

- Objective: Achieve better PID output modeling
- How? By correcting the input variables for the PID

Reweighting vs feature morphing

Reweighting:



Samples and selection

- Events from $Z \rightarrow ee$ decays selected with the Tag-and-Probe method are used to train the models
- Probe candidates are used to derive the corrections for the variables

The methods

The performance of the methods

Backup slides

