Contribution ID: **69** Type: **Talk**

How to Unfold Top Decays

Wednesday, 31 July 2024 18:00 (20 minutes)

Unfolded data can be used to measure the top mass, but also to search for unexpected kinematic correlations in top decay events. We show how generative unfolding can be used for both tasks and how the results benefit from the unbinned, high-dimensional unfolding. Our method includes an unbiasing step with respect to the top mass used during training data and promises significant advantages over standard methods, in terms of flexibility and precision.

Primary authors: PAASCH, Alexander; SCHWARZ, Dennis (Austrian Academy of Sciences); FAVARO, Luigi (ITP - University of Heidelberg); KOGLER, Roman (DESY); PALACIOS SCHWEITZER, Sofia (ITP, Heidelberg University); PLEHN, Tilman

Presenter: PALACIOS SCHWEITZER, Sofia (ITP, Heidelberg University)

Session Classification: Electroweak, Higgs and Top

Track Classification: Electroweak, Higgs and Top