## Dark Matter @ LHC 2020 (DM@LHC)

Contribution ID: 5 Type: Talk

## A novel density estimator and its use for LHC signal detection (8'+2')

Thursday 4 June 2020 17:20 (10 minutes)

We introduce a new density estimator based on Markov Chains. This estimator presents several benefits with respect to the usual ones and can be used straightforwardly in all density-based approaches to data science. After showing its consistency, we will present some promising results when applied to general scope datasets. Finally, we perform a preliminary analysis of a subset of the latest high energy physics dataset from darkmachines, establishing encouraging prospects for future use.

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