

BDT Study Using Correlation Based Method Part3

Progress Report on Tau Final States of TTTT

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What I have been doing

- Have done
 - Have read the famous Asymptotic formulae for likelihood-based tests of new physics paper
 - Done some of combine exercises
- To do
 - As people from IHEP group have suggested, try expected upper limit and expected significance as performance estimator to BDT training.
 - Use combine to get some results(shape base analysis) for the BDT training

Questions: combine

- there are 3 ways to be blind in combine
 - `-run expected`; performed a background only fit to data to define the Asimov dataset used to calculate the expected limits
 - `-run blind` or `-noFitAsimov`; skip this fit to data and use the pre-fit state of the model the option
 - Toy data generation (more general way); generate toy dataset as 'observed data' to all methods
- What can we learn about expected limit without observed limit?
 - the lower the value the better?

back up