

## Relation of model independent searches with Goodness of Fit, 2-sample tests, etc.

*Tuesday 24 May 2022 19:10 (30 minutes)*

### ABSTRACT:

I will review goodness of fit testing and two sample testing in the context of trying to test for a new signal. My goal is to point to results in the statistics literature that might be unfamiliar in the physics community. Topics will include: optimal tests, classifier-based tests, reproducing kernel Hilbert space tests, level set tests, bump tests and robustness.

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**Session Classification:** Session 1b. Chair Tom Junk