

# XII SERB School on Experimental High Energy Physics, TIFR, Mumbai, Jan 7-27, 2019

Contribution ID : 31

## Statistical Methods and Error Analysis

Thursday 17 Jan 2019 at 09:30 (01h30')

### Content :

Topics:

1. Basic Concepts, p-values, CLs, POWER, and measurements
2. Wald, Asimov, Asymptotics, FC, Profile Likelihood
3. Look Elsewhere Effect, 1D and 2D

G. Cowan, K. Cranmer, E. Gross and O. Vitells, Asymptotic formulae for likelihood-based tests of new physics; Eur. Phys. J. C (bf 71), 1554 (2011) Erratum: [Eur. Phys. J. C (bf 73), 2501 (2013)].

E. Gross and O. Vitells, Trial factors for the look elsewhere effect in high energy physics; Eur. Phys. J. C (bf 70), 525 (2010).

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**Session classification :** --not yet classified--

**Track classification :** --not yet classified--

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