



Contribution ID: 118

Type: **Lecture**

## **Data Analysis L3: Parameter estimation and confidence intervals**

*Thursday, September 8, 2022 2:45 PM (1 hour)*

In this lecture we will introduce the concept of test statistics and estimators. We will explain what are the key properties of a good estimator and how to obtain it using the Maximum Likelihood and Least Squares methods. We will define confidence intervals and make a strong statement on their statistical interpretation when discussing scientific results. Finally, we will learn how to derive confidence intervals for the Maximum likelihood and Least Squares methods.

### **Summary**

**Presenter:** SCULAC, Toni (University of Split)

**Track Classification:** Physics Computing