



Contribution ID: 1

Type: **not specified**

Experimental program at the LHC

Monday 6 March 2023 17:00 (1h 30m)

- 1\.. Introduction to the Course. Objectives. Plan of lectures. Additional information.
- 2\.. The LHC physics case. In a few slides review what are the main motivations for the LHC program. Short reminder of SM.
- 3\.. The LHC experimental program. The LHC machine. The experiments. Basic comparison CMS, ATLAS, LHCb and Alice.
- 4\.. Experimental challenges: Cross-sections, rates. Trigger. Pile-up. Radiation.

Presenter: VARELA, João (LIP)