

## **LIP Seminar**

Thursday, 12 November, 11h30

## Hunting for new physics with dibosons at the LHC

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(LIP)

The Standard Model of Particle Physics is known to be an incomplete picture of the Universe. There are many theoretical scenarios that extend the Standard Model by introducing new particles that decay into Higgs or gauge boson pairs, making diboson final states potential windows into new physics. Searches for such diboson resonances have been performed in a vast kinematic range, targeting different final states and employing state-of-the-art reconstruction techniques. This seminar reviews recent ATLAS searches using the LHC Run 2 dataset, with a focus on fully hadronic final states that play a leading role in the high mass region. It also discusses future directions to improve the sensitivity of these searches to signs of new physics as well as novel strategies to expand their scope.

**Location: Videoconference - Zoom** https://indico.lip.pt/event/744/

**Connection details** 

URL: https://videoconf-colibri.zoom.us/j/93118525564

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