



Laboratório de Instrumentação e  
Física Experimental de Partículas

## Seminário LIP

Terça Feira, 10 de Setembro 2019

11:30

### The Circular Electron Positron Collider Project

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After the Higgs discovery, high-precision Higgs physics measurements are the natural next step to probe the TeV-scale. Circular  $e^+e^-$  colliders, besides the possibility of direct discoveries, allow for precise measurements of the Higgs boson properties, as well as for collecting large samples of W and Z bosons that will significantly improve the Standard Model parameters precision, such as the W mass and the effective weak-mixing angle, and hence probe new physics.

This talk will focus on the Circular Electron Positron Collider (CEPC) proposed to be built in China. We will provide an overview of the project, as described in the Conceptual Design Report, emphasizing the physics reach, as well as the detector and accelerator designs. The R&D status towards the TDR, long-term plans, and plans for international collaboration will also be addressed.

**Local: Sala de Seminários (311)**

**LIP, Av. Prof. Gama Pinto, N° 2, 1649-003 Lisboa**

**<https://indico.lip.pt/event/616/>**

**(Café e bolinhos 30 min antes)**

**O evento terá transmissão por streaming:**

**URL: <https://videocast.fcn.pt/live/lip/seminarios>**

**PIN: LIP-seminario-2019-09-10**