

## The Higgs- $\rightarrow$ Zll spectrum at low $Q^2$ : SM vs. light new physics

*Thursday, 13 March 2014 10:00 (45 minutes)*

We analyse the H- $\rightarrow$ Zll spectrum at low values of the dilepton pair invariant mass. First we present precise predictions of the spectrum within the Standard Model, taking into account the effects due to QCD resonances. Then we illustrate the sensitivity of this spectrum to New Physics models with exotic light states and the natural connection with the  $(g - 2)$  anomaly.

**Presenter:** ALONSO-GONZALEZ, Martin (INFN LNF)