International Workshop on

Hadronic Contributions to New Physics Searches (HC2NP 2016)

Puerto de la Cruz, Tenerife, Spain

September 26–30, 2016

Organizers:
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Workshop Secretary:
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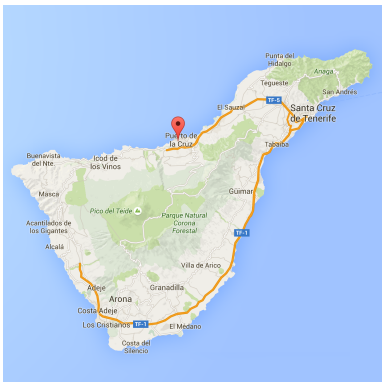
1st Circular

Along with the direct searches of new particles at the LHC, low-energy phenomenology offers many complementary ways to search for physics beyond the Standard Model. The low-energy searches, however, are often hindered by the insufficiently precise knowledge of hadronic contributions. The purpose of this meeting is to cross-examine the empirical and theoretical progress in the understanding of these contributions in the context of various searches of new physics. The SCOPE is limited to systematically improvable calculations in QCD (e.g., pQCD, lattice QCD, EFTs) and model-independent dispersive frameworks. This time we plan to focus on the high-precision analyses in the following SUBTOPICS:

- $(g-2)_\mu$: hadronic vacuum polarization, light-by-light scattering
- Flavor transitions of light hadrons and interplay with B-decay anomalies
- Hadronic inputs for direct searches of Dark Matter: σ terms
- Proton radius puzzle: muonic hydrogen Lamb shift and hyperfine structure

THE VENUE for this meeting, seen in the picture below (the red building, not the volcano!), is located in Tenerife — a gorgeous Canary Island. The hotel will allow us to host up to 50 participants at very moderate accommodation rates and conference fees.



ATTENDANCE is mostly by invitation. However, we anticipate a number of selected contributions. The workshop website is under construction at

http://indico.cern.ch/e/HC2NP

In the mean time, please mark your calendar for the *Tenerific meeting*!