

International Workshop on
Hadronic Contributions to New Physics Searches
(HC2NP 2016)

Puerto de la Cruz, Tenerife, Spain

September 26–30, 2016

Organizers:
Jorge Martin Camalich
Vladimir Pascalutsa
Workshop Secretary:
Myriam Gonzalez de Aledo

2nd Circular

Dear Colleagues,

The workshop registration is now open at <http://indico.cern.ch/e/HC2NP>

Please see below for further details about the workshop and your participation.

SCIENTIFIC SCOPE. 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

PRELIMINARY LIST OF SPEAKERS. Jose Manuel Alarcon, Aldo Antognini*, Constantia Alexandrou, Gunnar Bali, Andrzej Buras, Gilberto Colangelo*, Andreas Crivellin, Giancarlo D'Ambrosio, Achim Denig, Stephan Durr*, Ulrik Egede, Gernot Eichmann, Aida El-Khadra, Lisheng Geng, Martin Gonzalez-Alonso, Detlev Gotta, Ben Grinstein, Martin Hoferichter, Tobias Hurth, Sebastian Jaeger*, Andreas Juttner, Marc Knecht, Bastian Kubis*, Vadim Lensky, Heiri Leutwyler, Aneesh Manohar*, Stefan Meinel, Jose Antonio Oller, Antonio Pich, Antonio Pineda, Randolph Pohl, Farinaldo Queiroz, Akaki Rusetsky*, Pablo Sanchez-Puertas, Dmitrij Siemens, Hyejung Stoeckinger-Kim, Marc Vanderhaeghen, Ross D. Young*.

** Pending confirmation*

ATTENDANCE is by invitation, however requests for participation are welcome. Please contact us at HC2NPworkshop@protonmail.com.

IMPORTANT DATES:

Hotel reservation at negotiated rates (see next page): Until Jun 30, 2016

Early registration (250 EUR): Until Jun 30, 2016 (Late registration fee: 300 EUR)

The early conference fee can be paid by bank transfer, see the workshop website for details. Please tick 'Paying by cash' on the registration form in case you choose to pay the late fee on site.

VENUE AND ACCOMODATION. The meeting will take place in the **Hotel Las Aguilas**, seen in the picture below (the red building, not the volcano!).

There is a number of rooms reserved for the workshop participants at negotiated rates of

- 62 EUR/night (incl. breakfast and lunch) single occupancy
- 80 EUR/night (incl. breakfast and lunch) double occupancy
- 99 EUR/night (incl. breakfast and lunch) double occupancy + child under 12 y.o.
 - All rooms are 58 m² suites
 - No extra cost for children under 2 y.o.
 - Same rate applies for stays extending outside the workshop period
 - Free parking (subject to availability)

Rates are only valid for reservations before June 30th.

Reservations must be made directly by sending an email to reservas@hotellasaguilas.com with subject "Conference HC2NP". Further inquiries related to the accommodation can be made directly at that email.

Important: Accommodation at other hotels is possible but will likely be less convenient and more expensive. We strongly encourage all participants to stay at the workshop hotel! If you booked on your own please let us know.

TRANSPORTATION. Tenerife is accessed through two international airports: Los Rodeos (TFN) and Reina Sofia (TFS). The workshop venue is in Puerto de la Cruz, marked on the zoomable picture below.

- **TFN** is in the North of Tenerife, 30 km from the venue. There is a regular bus (**line 102**) between TFN and Puerto de la Cruz. The fare is 4.75EUR and it takes 35 min.
- **TFS** in the South, 90 km from the venue. There is also an express bus (**line 343**) between TFS and Puerto de la Cruz. The fare is 13.55EUR, it takes 1h 20 min and the timetable can be found [here](#).

Once you arrive in Puerto de la Cruz a taxi will drive you to the Hotel Las Aguilas. If you need help with your transportation from the airport, do not hesitate to contact us at HC2NPworkshop@protonmail.com.

FOR FURTHER INFO AND UPDATES see the workshop website:

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

... and get ready for the *Tenerific meeting!*

