

## Second Circular of HiX2019, Crete, Greece, August 2019

Dear Colleagues,

This is the second circular for the **5th International Workshop on Nucleon Structure at Large Bjorken  $x$  (HiX2019)**, which will take place in Kolympari, on the Island of Crete, Greece, on August 16-21, 2019. Kolympari is close to the city of Chania and its international airport. The venue will be the Orthodox Academy of Crete. This meeting will continue a series of workshops held previously in Philadelphia, USA (2000), Marseille, France (2004), Newport News, USA (2010), and Frascati, Italy (2014).

While a tremendous amount of knowledge about the quark and gluon structure of the nucleon and nuclei has been accumulated in the four decades since the development of Quantum Chromodynamics, significant gaps remain, particularly in the valence quark region where the parton momentum fraction  $x$  is large. With the expectation of new data from the Jefferson Lab 12 GeV Science Program, as well as from collider and neutrino experiments, it is timely to review advances in our understanding of nucleon structure at high  $x$  and assess the possible impact of the new data. The workshop will discuss new theoretical ideas and suggestions for additional studies at present and future facilities, along with implications for related fields.

The topics to be addressed at the workshop will include:

- Parton distribution functions at large  $x$
- Longitudinal and transverse spin structure
- Transverse momentum distributions
- Nuclear medium modifications of parton distributions
- Quark-hadron duality and higher twists
- Lattice QCD and low energy models
- Implications for new physics searches and related fields
- Large- $x$  Physics at the Electron-Ion Collider and future facilities

More information about the Workshop is becoming available on: <https://indico.cern.ch/event/799284>. A program consisting of invited and contributed talks, and of posters, is being formed based on suggestions by the International Advisory Committee (IAC)\* of the Workshop and through submissions of abstracts. The deadline for submission of abstracts is provided on the above web site. Also provided on the web site is preliminary essential information on travel and lodging.

Please feel free to forward this announcement to your collaborators and other interested colleagues. We look forward to seeing you at HiX2019 in Crete this summer!

Sincerely,

**The HiX2019 Organizing Committee:** Alberto Accardi (Hampton), George Fanourakis (NCSR Demokritos), Alessandra Fantoni (INFN Frascati), Mina Katramatou (Kent State), Cynthia Keppel (JLab), Zein-Eddine Meziani (Argonne/Temple), and Gerassimos Petratos (Kent State). (Email address: [hix2019@inp.demokritos.gr](mailto:hix2019@inp.demokritos.gr))

**\*IAC Members:** Alessandro Bacchetta (Pavia U), Jiunn-Wei Chen (National Taiwan U), Ian Cloët (ANL), Martha Constantinou (Temple), Amanda Cooper Sarkar (Oxford U), Abhay Deshpande (Stony Brook U/BNL), Rolf Ent (JLab), Haiyan Gao (Duke U), Javier Gomez (JLab), Emlyn Hughes (Columbia U), Sergey Kulagin (INR Moscow), Krishna Kumar (Stony Brook U), Simonetta Liuti (U Virginia), Wally Melnitchouk (JLab), Valeria Muccifora (INFN Frascati), Roberto Petti (U South Carolina), Giovanni Salmè (INFN Rome), Anthony Thomas (Adelaide U), Maria Ubiali (U Cambridge), Marc Vanderhaegen (Mainz U).