

Jefferson Lab, February 27<sup>th</sup>, 2012

Dear Colleagues,

Below you find the second circular for Chiral Dynamics 2012. Please feel free to distribute this circular to those you think might be interested.

Thank you and best regards,

Jian-ping Chen and Jose Goity

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CHIRAL DYNAMICS 2012

August 6-10, 2012, Jefferson Lab,  
Newport News, Virginia

## Second Circular

This workshop is the 7th in the series which started in 1994 at MIT. Subsequent workshops were held at Mainz (1997), JLab (2000), Bonn (2003), Duke (2006) and Bern (2009). The 7th workshop will take place August 6-10, 2012, and will be hosted in the USA by Jefferson Lab, Newport News, Virginia. The purpose of this workshop series is to bring physicists together who are active in this field, as well as those who are interested, to discuss and debate the most recent and future developments in various topics related to the study of Chiral Dynamics. The workshop traditionally draws a near equal contribution from theorists and experimentalists and in the latest editions a strong synergy with the lattice community has developed.

Topics which will be discussed at this workshop are:

Goldstone Boson Dynamics

Hadron Structure and Meson-Baryon Interactions

## Few-Body Physics

Lattice QCD and Chiral Dynamics

## Experimental results and programs

In addition to the plenary talks, these topics will be the focus of three working groups, as described below.

The workshop's webpage is already active: <http://www.jlab.org/conferences/CD12/>. Registration will be open in early March. Abstract submission is already active.

For other inquiries please contact Jian-ping Chen or Jose Goity, or [CD12\\_program@jlab.org](mailto:CD12_program@jlab.org)

## **Organizing Committee**

Jian-pin Chen (JLab) and Jose Goity (Hampton Univ./JLab) (Co-chairs)  
Alexander Deur (JLab)  
Robert Edwards (JLab)  
Harald Griesshammer (George Washington Univ.)  
Dinko Pocanic (Univ. of Virginia)  
Rocco Schiavilla (Old Dominion Univ./JLab)  
Patricia Solvignon (JLab)

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Martin Savage, Univ. of Washington, Seattle, USA  
Marc Vanderhaegen, Univ. Mainz, Mainz, Germany  
Bira Van Kolck, Univ. of Arizona, Tucson, USA  
Yue Liang Wu, ITP, Beijing, China  
Zhengguo Zhao, USTC, Hefei, China

## Working Groups and Organizers

The three working groups with the corresponding organizers are shown below.

### **Goldstone Bosons**

**Mario Antonelli** (CERN) mario.antonelli@cern.ch

**Liping Gan** (UNC Wilmington) ganl@uncw.edu

**Jorge Portoles** (IFIC, Valencia) Jorge.Portoles@ific.uv.es

**Urs Wenger** (ITP Bern) wenger@itp.unibe.ch

### **Hadron structure and meson baryon interactions**

**Alessandro Bacchetta** (Pavia) alessandro.bacchetta@unipv.it

**Bastian Kubis** (ITKP Bonn) kubis@itkp.uni-bonn.de

**Kostas Orginos** (W&M/JLab) kostas@wm.edu

**Karl Slifer** (New Hampshire) karl.slifer@unh.edu

### **Few body physics**

**Andreas Nogga** (Jülich) A.Nogga@fz-juelich.de

**Assumpta Parreño** (Univ of Barcelona) aparrenog@ub.edu

**Michele Viviani** (INFN Pisa) Michele.Viviani@df.unipi.it

**Henry Weller** (Duke/TUNL) weller@tunl.duke.edu

The organizers will invite speakers and also unsolicited abstracts can be submitted online:

<http://www.jlab.org/conferences/CD12/abstracts.html>

Queries about the working groups can be directly sent to the organizers.

## Preliminary Plenary Program

The plenary program will include the following currently confirmed speakers with the corresponding tentative topics. The complete plenary program will become available soon.

|   |  |
|---|--|
| Overview of JLab Physics: past, present, future | Bob McKeown (JLab)                         |
| Overview of ChPT: Mesons                        | Hans Bijnens (Lund)                        |
| $\mu$ -capture from PSI                         | Peter Kammel (Univ of Washington)          |
| Overview of TUNL                                | Mohammad Ahmed (Duke Univ)                 |
| Baryons in Lattice QCD                          | André Walker-Loud (LBNL)                   |
| Two and few body interactions on the Lattice    | Will Detmold (College of William and Mary) |
| Baryon-baryon interactions                      | Noriyoshi Ishii (Tsukuba)                  |
| Status of NNEFT                                 | Daniel Phillips (Ohio Univ)                |
| Currents in NNEFT                               | Luca Girlanda (INFN Lecce)                 |
| Three nucleon forces in EFT                     | Hermann Krebs (Univ Bochum)                |
| Unitarity methods in ChPT                       | Irinel Caprini (NIPNE)                     |
| Isospin violation, strong and QED from Lattice  | Taku Izubuchi (BNL)                        |
| Meson spectrum from Lattice QCD                 | Jo Dudek (Old Dominion Univ/JLab)          |
| Weak interactions in Lattice QCD                | Chris Sachrajda (Univ Southampton )        |
| $\eta \rightarrow 3\pi$ and quark mass ratios   | Stefan Lanz (Univ Lund)                    |
| Overview  | Aron Bernstein (MIT)                       |

We are looking forward to your participation in CD12!

THEORY AND EXPERIMENT • 7TH INTERNATIONAL WORKSHOP

JEFFERSON LAB

AUGUST 6-10, 2012

NEWPORT NEWS, VA

# Chiral Dynamics

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### • Goldstone Boson

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Liping Gan (Univ. of North Carolina)  
Jorge Portoles (IFIC, Valencia)  
Urs Wenger (ITP, Bern)

### • Hadron Structure and Meson-Baryon Interactions

Alessandro Bacchetta (Univ. of Pavia)  
Bastian Kubis (ITKP, Bonn)  
Kostas Orginos (W&M/JLab)  
Karl Slifer (Univ. of New Hampshire)

### • Few Body Physics

Andreas Nogga (IKP, Jülich)  
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Johan Bijnens, Univ. of Lund  
Gilberto Colangelo, ITP Bern  
Thomas Cohen, Univ. of Maryland  
Gerhard Ecker, Univ. of Vienna  
Evgeni Epelbaum, Univ. Bochum  
Ruben Flores-Mendieta, Univ. of San Luis Potosi  
Haiyan Gao, Duke University  
Maarten Golterman, San Francisco State Univ.  
Barry Holstein, Univ. of Massachusetts  
Karl Jansen, DESY/Zeuthen  
Heinrich Leutwyler, Univ. of Bern  
Elizabeth Jenkins, Univ. of California  
Ulf-G. Meissner, Univ. of Bonn  
Fred Myhrer, Univ. of South Carolina  
Harald Merkel, Inst. fuer Kernphysik  
Bachir Moussallam, IPN Orsay  
Jose R. Pelaez, Univ. of Madrid  
Antonio Pich, Univ. of Valencia  
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