

# 2nd China - South Africa Joint Symposium on Nuclear Physics

—*Problems in Fundamental and Applied Nuclear Physics*

Stellenbosch, South Africa

December 3-7, 2012

## FIRST CIRCULAR

### BACKGROUND

The Nuclear Physics communities at Stellenbosch University and Peking University have a long standing relationship which has been developed over the past 9 years. Through strong collaborative ties and a number of exchange visits have resulted in internationally acclaimed research output. Since 2009 this collaboration has been extended to several universities and national research institutes which include the iThemba Laboratory for Accelerator Based Sciences in South Africa as well as Shandong University, Beihang University, Tsinghua University, the University of the Western Cape and China Institute of Atomic Energy (CIAE) in China. Encouraged by the fruitful collaboration which exists, *the first joint China-South Africa symposium* was held at Beihang University in Beijing in September 2011.

### PRESENT MEETING

Stellenbosch University will host *the 2nd Symposium* in the Stellenbosch. This symposium will present opportunity for interaction, with the main motive to bring together not only leading nuclear physicists from South Africa and China but also young researchers from both sides.

The main topics will be dedicated to nuclear reactions, nuclear structure, chirality in nuclei, nuclear physics with Radioactive Ion Beams, neutron physics, nuclear astrophysics and applications. A session will also be dedicated to discuss the possibility of building an underground neutrino laboratory in South Africa. Possibilities to extend the co-operation among physicists from China and South Africa will also be discussed.

This symposium will certainly be helpful in exchange of new ideas, sharing of information and presentation of latest research results. The main aim is to strengthen the existing collaboration and to promote new collaborations between the South Africa and Chinese nuclear physics communities and thereby enhance the development of nuclear physics and its applications on both sides.

Speakers of each session are selected by the coordinators of the session. The program will include speakers from both South Africa and China and in addition, experts from the field from other institutes. For more information see the meeting web page:

<http://indico.ihep.ac.cn/conferenceDisplay.py?confId=2799>

The Symposium program will cover a report back on existing as well as new developments in the field of fundamental nuclear physics, applied nuclear physics, and physics of underground laboratories and nuclear astrophysics in the context of the China - South Africa collaboration in Nuclear Science.

## TOPICS

The main topics include:

- Chirality in nuclei
- New Radioactive Ion Beam facilities
- Nuclear reactions, beams and facilities, techniques and applications
- Nuclear structure, clusters, modern microscopic methods, photon strength functions
- Reactor neutrons for fundamental and applied research,
- Towards the underground laboratory

## ORGANIZING COMMITTEE

C. April (Stellenbosch, Local Secretary), Robert Bark (iThemba), Daphney Bucher (iThemba), Elena Lawrie (iThemba), Zhipan LI (South-west China), Weiping LIU(CIAE), Yugang MA (SINAP), Peana Maleka (iThemba), J. Meng (Peking / Beihang, Co-chair), R. Newman (Stellenbosch), J. Orce (Western Cape), P. Papka (Stellenbosch), Chunyan SONG(Beihang, secretary), Shouyu WANG(ShanDong), M. Wiedeking (iThemba), S. Wyngaardt (Stellenbosch, Co-chair), Zhigang XIAO(Tsinghua), Shuangquan ZHANG(Peking), Shan-gui ZHOU(ITP), Xiaohong ZHOU(IMP), Lihua ZHU(Beihang)

## CONFERENCE PROGRAM

The symposium will include presentations and discussions during the period December 3 - 6, 2012. December 7, 2012 is set aside for an excursion (more detail later). The destination of the excursion will be specified in the 2nd circular.

## APPLICATION

Those who are interested to attend this symposium are kindly requested to register online before 1 October 2012.

## CORRESPONDANCE

Please, address all mails and questions to the following Conference Organizing Committee:

Participants from South Africa: C. April, [physoffice@sun.ac.za](mailto:physoffice@sun.ac.za)  
Participants from China: C. Y. Song, [cysong@buaa.edu.cn](mailto:cysong@buaa.edu.cn)