

4thChina – South Africa Joint Symposium on Nuclear Physics

— *Problems in Fundamental and Applied Nuclear Physics*

iThala Game Reserve, South Africa

29 – 31 July, 2017

FIRST CIRCULAR

BACKGROUND

The Nuclear Physics communities at Stellenbosch University and Peking University have a long standing relationship which has been developed over more than a decade. 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, the University of the Western Cape and the University of Zululand in South Africa, as well as Shandong University, Beihang University, Tsinghua University, and China Institute of Atomic Energy (CIAE) in China. Encouraged by the fruitful collaborations, *the first joint China-South Africa symposium* was held at Beihang University in Beijing in 2011, the second hosted by Stellenbosch University in 2012 and the third hosted by Shandong University in August 2015.

PRESENT MEETING

The University of Zululand, Stellenbosch University and iThemba LABS combine to host *the 4th Symposium* in in the [iThala Game Reserve](#) in northern Kwa-Zulu Natal, South Africa. This symposium will present opportunity for the presentation of latest research results and 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, accelerator physics, neutrino physics, environmental radiation and applications. 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.

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](#).

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
- Applications
- Accelerator Physics
- Environmental Radiation
- Towards the underground laboratory

LOCAL ORGANIZING COMMITTEE

Robert Bark (iThemba LABS), Lowry Conradie (iThemba LABS), Rudolph Nchodu (iThemba LABS), Sifiso Ntshangase (Zululand) and Shaun Wyngaardt (Stellenbosch, Co-chair)

CONFERENCE PROGRAM

The symposium will include presentations and discussions during the period July 29 - 31, 2017.

TRAVEL FUNDING

We are negotiating with the NRF for the full costs (travel, accommodation) for approximately 30 South African researchers to attend the symposium. It is anticipated that travel will be organized to depart to iThala on the 28th of July and return on the 1st of August. Accompanying persons will not be funded by the NRF.

APPLICATION

Those who are interested to attend this symposium are kindly requested to register [online](#) and submit an abstract (less than one page) before the 3rd of June 2017. In the case of demand exceeding the supply of travel funds, the local organizing committee will rank the South African applications according to the quality of the abstract and the ability to grow scientific linkages with Chinese researchers.

CORRESPONDENCE

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

Participants from South Africa: C April: physoffice@sun.ac.za