

International Workshop on Nuclear Spectroscopy Frontiers at Magnetic Spectrometers

First Announcement

Aim: The aim is to hold a workshop focusing on the physics vision for high energy-resolution nuclear spectroscopy with magnetic spectrometers and the associated requirements to achieve these measurements. A focus (although not exclusively) will be on 0° and small angle scattering and reactions and recent developments and future plans at RI beam facilities. The workshop forms part of the German / South African “Year of Science 2012”, in recognition of the iThemba LABS / University of the Witwatersrand / Technical University Darmstadt collaboration now spanning nearly two decades.

Main Topics:

Electric and spin-magnetic dipole response
Charge-exchange reactions and Gamow-Teller strength
Fine structure of giant resonances
Alpha cluster structure
Mixed-symmetry states
Light-ion reactions of astrophysical interest

Venue: Mostertsdrif Huis on the site of Stellenbosch Institute for Advanced Studies (STIAS), Stellenbosch, South Africa. This venue can accommodate a maximum of 50 people. It is therefore advisable to register early.

Conference Venue Link: www.sun.ac.za/stias

Dates: 19 - 22 November 2012 - **Main workshop**

23 - 24 November 2012 – **Student “Master classes”**. See below for details

Registration: Please register at <http://indico.tlabs.ac.za/conferenceDisplay.py?confId=22>. The last day of registration is 19 October 2012.

Registration Fee: South African Rand 2 000.00

Banking details: ABSA Bank
Account name: iThemba LABS
Account no: 2900980135
Branch: Somerset West
Branch no: 334712
Swift Code: ABSA ZAJJ CCT

Payments can be made via direct deposit or electronic transfer. Cheques should be made payable to iThemba LABS. Please e-mail to spectrometry2012@tlabs.ac.za or fax a copy of your transfer record to +27 86 611 6096 and mark for attention: SPEC2012 with your invoice number quoted.

Abstract: The last day for abstract submission is 28 September 2012.

Proceedings: There will be no proceedings.

Accommodation: Delegates are asked to attend to their own accommodation needs. A list of Bed and Breakfast establishments within walking distance of the workshop venue is provided at the link www.tlabs.ac.za/spectrometer/accommodation.htm. Delegates are reminded that November is high season for Stellenbosch so that bookings for accommodation should be made as early as possible.

Enquiries: For more information and enquiries, please contact us at spectrometry2012@tlabs.ac.za.

Invited Speakers:

G.P.A. Berg (University of Notre Dame, USA)
J. Birkhan (Technische Universität Darmstadt, Germany)
F. Cappuzello (LNS, Catania, Italy)
P. Egelhof (GSI Darmstadt, Germany)
J. Endres (Universität Köln, Germany)
R.W. Fearick (University of Cape Town, South Africa)
M. Freer* (University of Birmingham, Great Britain)
D. Frekers (Universität Münster, Germany)
H. Fujita* (RCNP, University Osaka, Japan)
Y. Fujita (University Osaka, Japan)
K. Hatanaka (RCNP, University Osaka, Japan)
D. Heiss (University of Stellenbosch, South Africa)
T. Kawabata (University Kyoto, Japan)
A. Krugmann* (Technische Universität Darmstadt, Germany)
E. Litvinova (MSU, USA)
H. Matsubara (RIKEN, Tokyo, Japan)
R. Neveling (iThemba LABS, South Africa)
N. Orce (University of Western Cape, Belville, South Africa)
N. Pietralla (Technische Universität Darmstadt, Germany)
I. Poltoratska (Technische Universität Darmstadt, Germany)
V.Yu. Ponomarev (Technische Universität Darmstadt, Germany)
D. Savran (EMMI, GSI Darmstadt, Germany)
A. Tamii (RCNP, University Osaka, Japan)
N. Tsoneva (Universität Gießen, Germany)
I. Usman (University of the Witwatersrand, Johannesburg, South Africa)

C. Walz (Technische Universität Darmstadt, Germany)

A. Zilges (Universität Köln, Germany)

K. Zuber (Technische Universität Dresden, Germany)

*to be confirmed

Master Classes: Professors Yoshitaka Fujita (University Osaka, Japan), Peter von Neumann-Cosel (Technical University Darmstadt, Germany) and Atsushi Tamii (RCNP Osaka, Japan) have kindly offered to give a series of lectures on the physics with magnetic spectrometers aimed at graduate students. These lectures will be held on Friday and Saturday (23,24 November 2012) following on from the workshop in the Stellenbosch Physics Department. These lectures are free and with no limit on the numbers. All students are encouraged to attend. A block booking from Sunday to Sunday will be made in one Bed and Breakfast for non-local students who indicate that they are interested in attending the workshop plus the “master classes”.