

# High Energy Particle Physics Workshop

February 11<sup>th</sup>-13<sup>st</sup> 2015, iThemba LABS - Gauteng

The goal of this workshop is to give opportunity for students and young researchers to give presentations and to write proceedings. A morning plenary session, followed 15+10 minute presentations, shall be the format across our three days. The topics to be covered will be high-energy theory and phenomenology (heavy ions, pp, ep, ee collisions), ATLAS physics and ALICE physics. Given the format, it is expected that all MSc and PhD students will have a chance to present to their peers and senior physicists. It is envisioned to provide Honors and undergraduate students with the opportunity to perform poster presentations.

#### Registration and funding opportunities:

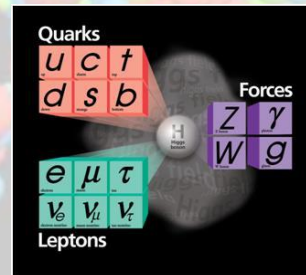
The event is open to anyone. There are funding opportunities for students outside the Gauteng Province. Visit the workshop's website for more information: <http://hep.wits.ac.za/HEPPW2015.php>

#### Venue:

iThemba LABS – Gauteng  
Cnr Jan Smuts Ave & Empire Road, Braamfontein 2001, Johannesburg  
<http://www.tlabs.ac.za/gauteng-labs-directions/>  
Catering will be provided at:  
Wits Professional Development HUB  
92 Empire Road, Braamfontein 2001, Johannesburg  
<http://wits-enterprise.co.za/welcome-to-the-wits-professional-development-hub/>

#### Local Organising Committee:

Zinhle Buthelezi (iThemba LABS)  
Alan Cornell (Nithep/Wits, Co-chair)  
Andrew Hamilton (UCT)  
Deepak Kar (Wits)  
Bruce Mellado (Wits, Co-Chair)  
Elias Sideras-Haddad (Wits)  
W. A. Horowitz (UCT)  
Sahal Yacoob (UKZN)



# High Energy Particle Physics Workshop 2015

11-13 February 2015

Other Institutes

Africa/Johannesburg timezone

Overview

Scientific Programme

Timetable

Contribution List

Author List

My Conference

↳ My Contributions

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Starts 11 Feb 2015 09:00

Ends 13 Feb 2015 13:30

Africa/Johannesburg



Other Institutes

iThemba LABS - Gauteng

Cnr Jan Smuts Ave & Empire Road,  
Braamfontein

Private Bag11, WITS 2050, South Africa



Cornell, Alan  
Mellado Garcia, Bruce



Poster



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<https://indico.cern.ch/event/367368/>

09:00	<b>DVC research</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	<i>Prof. Zeblon VILAKAZI</i> 09:00 - 09:10
	<b>Welcome from the SAIP</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	<i>Dr. Igle GLEDHILL</i> 09:10 - 09:20
	<b>Welcome from the Head of the School of Physics</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	<i>Prof. John CARTER</i> 09:20 - 09:35
	<b>Introduction and structure of the workshop</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	<i>Bruce MELLADO GARCIA et al.</i> 09:35 - 09:45
10:00	<b>Overview of iThemba facilities</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	<i>Simon MULLINS</i> 09:45 - 10:30
	<b>Coffee</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	10:30 - 11:00
11:00	<b>Heavy Ion Theory</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	<i>Muronga AZWINNDINI</i> 11:00 - 11:45
12:00	<b>Heavy Ion Experiment</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	<i>Tom DIETEL</i> 11:45 - 12:30
13:00	<b>Lunch</b>  <b>Lunch at the PDH across the road</b>  12:30 - 13:30	

<b>Jets of light hadrons via AdS/CFT correspondence</b>	<i>Razieh MORAD</i>
<i>iThemba LABS - Gauteng, Other Institutes</i>	13:30 - 13:50
<b>Using a Classical Gluon Cascade to study the Equilibration of a Gluon-Plasma</b>	<i>R MCCONNEL</i>
<i>iThemba LABS - Gauteng, Other Institutes</i>	13:50 - 14:10
<b>Short path length and running coupling pQCD corrections to energy loss in the QGP</b>	<i>Isobel KOLBE</i>
<i>iThemba LABS - Gauteng, Other Institutes</i>	14:10 - 14:30
<b>Finite time calculations for hard parton production relevant to the QGP</b>	<i>Ben MEIRING</i>
<i>iThemba LABS - Gauteng, Other Institutes</i>	14:30 - 14:50
<b>Review of jet reconstruction algorithms</b>	<i>Ryan ATKIN</i> 
<i>iThemba LABS - Gauteng, Other Institutes</i>	14:50 - 15:10
<b>Coffee</b>	
<i>iThemba LABS - Gauteng, Other Institutes</i>	15:10 - 15:40
<b>Simulation of microscopic black-hole production at the LHC</b>	<i>Mr. Warren Anthony CARLSON</i>
<i>iThemba LABS - Gauteng, Other Institutes</i>	15:40 - 16:00
<b>Quasi-normal Modes for Spin 3/2 Fields</b>	<i>Gerhard HARMSEN</i>
<i>iThemba LABS - Gauteng, Other Institutes</i>	16:00 - 16:20
<b>Single Top and Double Higgs Boson Production in ep Collisions</b>	<i>Mukesh KUMAR</i>
<i>iThemba LABS - Gauteng, Other Institutes</i>	16:20 - 16:40
<b>Understanding the Higgs Boson with the Large Hadron Electron Collider</b>	<i>Jonathan ESTEVES</i> 
<i>iThemba LABS - Gauteng, Other Institutes</i>	16:40 - 17:00

09:00	<b>Theoretical overview of pp collision physics results</b>	<i>Alan CORNELL</i>
	<i>iThemba LABS - Gauteng, Other Institutes</i>	09:00 - 09:45
10:00	<b>Review of ATLAS Physics Results</b>	<i>Deepak KAR</i>
	<i>iThemba LABS - Gauteng, Other Institutes</i>	09:45 - 10:30
	<b>Coffee</b>	
	<i>iThemba LABS - Gauteng, Other Institutes</i>	10:30 - 11:00
11:00	<b>The discovery of the Standard Model Higgs boson and its properties</b>	<i>Xolisile Octavia THUSINI</i>
	<i>iThemba LABS - Gauteng, Other Institutes</i>	11:00 - 11:20
	<b>Measurement of the properties of Higgs boson in two photon final state in ATLAS</b>	<i>Xifeng RUAN</i>
	<i>iThemba LABS - Gauteng, Other Institutes</i>	11:20 - 11:40
	<b>Measurement of the Higgs Boson Transverse Momentum in the Di-photon Channel with the ATLAS detector</b>	<i>Robert Graham REED</i>
12:00	<b>Measurement of the Higgs Boson Transverse Momentum and its Sensitivity to New Physics Beyond the Standard Model</b>	<i>D GOSSMAN</i> 
	<b>Higgs Production through Gluon Fusion and Plausible Dark Matter Studies</b>	<i>Stefan Erich VON BUDDENBROCK</i>
13:00	<b>Lunch</b>	
	<b>Lunch at the PDH across the road</b>	
		12:40 - 14:00



14:00	<b>Missing PT reconstruction at ATLAS</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	<i>Claire LEE</i> 14:00 - 14:20
	<b>Performance of missing transverse momentum reconstruction in ATLAS studied in proton-proton collisions in 2012 at 8 TeV</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	<i>Luis MARCH RUIZ</i> 14:40 - 15:00
	<b>Large AT without Dessert</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	<i>Ammar ABDALGABAR</i> 14:40 - 15:00
15:00	<b>Results of the search for an A boson decaying to Zh, with an lltautau final state, in pp collisions at 8 TeV centre of mass energy recorded with the ATLAS experiment</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	<i>Guillermo Nicolas HAMITY</i> 15:20 - 15:40
	<b>Measurement of exclusive <math>\gamma\gamma \rightarrow \mu+\mu-</math> events in the ATLAS Experiment</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	<i>Ferdinand Wilhelm SCHENCK</i> 15:20 - 15:40
	<b>Coffee</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	15:40 - 16:10
16:00	<b>Radiation hardness of plastic scintillators for the Tile Calorimeter of the ATLAS detector</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	<i>Harshna JIVAN</i> 16:10 - 16:30
	<b>Studying the Radiation Damage of Plastic Scintillators using EPR</b> <i>iThemba LABS - Gauteng, Other Institutes</i>	<i>Chad Dean PELWAN</i> 16:30 - 16:50
17:00	<b>Study of Radiation Hardness of Plastic Scintillators fro the Upgrade of the Tile Calorimeter of the ATLAS detector</b> <i>iThemba LABS, Gauteng</i>	<i>Shell-May LIAO</i> <i>Thokozani KHUMALO</i>

Workshop's Banquet, 6:30 pm.  
<http://www.mikeskitchenparktown.co.za>

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[bookings@mikeskitchenparktown.co.za](mailto:bookings@mikeskitchenparktown.co.za)

**We're OPEN:**

**Monday - Saturday:** 08h00 - 22h00

**Sunday:** 08h00 - 17h00



09:00	<b>Design of a new front-end electronics test bench for the upgraded ATLAS detector's Tile Calorimeter</b>	<i>Chamunorwa Oscar KUREBA</i>
	<b>Development and Testing of a High Data Throughput ADC Board for the Prometeo Portable Test-bench System for the Certification of the ATLAS Tile Hadronic Calorimeter</b>	<i>Matthew SPOOR</i>
	<b>Optimal Filtering on ARM for ATLAS Tile Calorimeter Front-End Processing</b>	<i>Mitchell Arij COX</i>
	<i>iThemba LABS - Gauteng, Other Institutes</i>	09:40 - 10:00
10:00	<b>PGAS in-memory data processing for the Processing Unit of the Upgraded Electronics of the Tile Calorimeter of the ATLAS Detector</b>	<i>Daniel OHENE-KWOFIE</i>
	<b>Coffee</b>	
	<i>iThemba LABS - Gauteng, Other Institutes</i>	10:20 - 10:50
	<b>Using GPGPU to Increase Accessibility and Efficiency in LHC Computational Systems</b>	<i>Marc SACKS</i>
11:00	<i>iThemba LABS - Gauteng, Other Institutes</i>	10:50 - 11:10
	<b>Atlas Nightly on Arm</b>	<i>Joshua Wyatt SMITH</i>
	<i>iThemba LABS - Gauteng, Other Institutes</i>	11:10 - 11:30
	<b>The Data Acquisition system for a fixed target experiment at the NICA complex at JINR and its connection to the ATLAS TileCal readout electronics</b>	<i>Kehinde Gbenga TOMIWA</i> 
12:00	<b>An Integration Framework Tool for ATCA's in the ATLAS Detector Control System</b>	<i>Robert Graham REED</i>
	<i>iThemba LABS - Gauteng, Other Institutes</i>	11:50 - 12:10

**Lunch at the PDH across the road. Those leaving to the airport will receive lunch boxes at 12:00. Leaving at 12:30**





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