

KRUGER2016	
4-9 December 2016 Programme	
Sunday 4 December	
19:30-20:30	Welcome Function on the banks of the Sabie River with Shangaan dancers and choir
Monday 5 December	
Opening Session Chair: Jean Cleymans (Cape Town, South Africa)	
09:00-09:15	Daniel Adams (DST, South Africa)
09:15-09:30	Faiçal Azaiez (Director, iThemba LABS)
09:30-10:00	Rüdiger Voss (CERN International Relations)
Morning: Plenary Session Chair: Bruce Mellado (WITS, South Africa)	
10:00-10:45	The Future of Heavy Ion Physics from an Experimental and Physics Perspective John Harris (Yale University, USA)
10:45-11:30	Overview of Recent ALICE Results Enrico Scomparin (INFN Torino, Italy)
11:30-12:00	Morning Tea
12:00-12:45	Searches for Beyond the Standard Model Physics with ATLAS Bernd Stelzer (Simon Fraser University, Canada)
12:45-13:30	Overview of Results from CMS Chris Neu (University of Virginia, USA)
13:30-14:30	Lunch
Afternoon: Parallel Session I Chair: Alan Cornell (WITS, South Africa)	
14:30-15:00	Higgs phenomenology at the LHC using di-Higgs searches Y Fang (IHEP, China)
15:00-15:30	Identified Hadron Production in pp Collisions Measured with ALICE Yasser Corrales Morales (INFN Torino, Italy)
15:30-16:00	Bounds for Lighter Higgses in Extensions of the Standard Model Aldo Deandrea (IPNL - University Lyon 1, France)
16:00-16:30	Status of Higher Order QCD Computations Giulia Zanderighi (CERN, Switzerland)
Afternoon: Parallel Session II Chair: Deepak Kar (WITS, South Africa)	
14:30-15:00	Electroweak Results on the Standard Model/QCD from ATLAS Valerio Dao (Stony Brook University, USA)
15:00-15:30	Searches Using Substructure Techniques for Exotics in ATLAS Katharina Behr (DESY Hamburg, Germany)
15:30-16:00	Upgrade physics prospects at the ATLAS Experiment Victoria J Martin (University of Edinburgh, UK)
16:00-16:30	Searches Involving Higgs to Diphoton Final States in ATLAS Jared Gregory Vasquez (Yale University, USA)
16:30-17:00	Afternoon Tea
Afternoon: Plenary Session Chair: Jean Cleymans (Cape Town, South Africa)	
17:00-17:45	Physics at iThemba LABS Faiçal Azaiez (iThemba LABS, South Africa)
Evening: Dinner	

KRUGER2016 4-9 December 2016 Programme	
Tuesday 6 December	
Morning: Plenary Session Chair: Thomas Dietel (Cape Town, South Africa)	
10:00-10:45	CERN, a global project Rüdiger Voss (CERN, Switzerland)
10:45-11:30	Physics at FAIR: Opportunities for South Africa Horst Stoecker (GSI/FIAS/Goethe Universität, Germany)
11:30-12:00	Morning Tea
12:00-12:45	New Developments in Monte Carlo Tools for new physics Benjamin Fuks (LPTHE - CNRS - UPMC, Paris, France)
12:45-13:30	Resonance Production in ALICE Christina Markert (University of Texas at Austin, USA)
13:30-14:30	Lunch
Afternoon: Parallel Session III Chair: Deepak Kar (WITS, South Africa)	
14:30-15:00	Status of Higgs Boson studies in ep collisions Bruce Mellado (WITS, South Africa)
15:00-15:30	Open heavy-flavour production in heavy-ion collisions with ALICE at the LHC Massimiliano Marchisone (iThemba LABS, South Africa)
15:30-16:00	Standard Candles for Partial Compositeness Giacomo Cacciapaglia (IPN Lyon, France)
16:00-16:30	Higgs Production at NLO in the Standard Model Effective Theory Nicolas Deutschmann (IPN Lyon/CP3 Louvain, Belgium)
Afternoon: Parallel Session IV Chair: Heather Gray (CERN, Geneva)	
14:30-15:00	Simplified models of dark matter Greg Landsberg (Brown University, USA)
15:00-15:30	ATLAS SUSY searches Michaël Ughetto (Stockholm University, Sweden)
15:30-16:00	Recent status of NA61/SHINE activities Ludwik Turko (University of Wroclaw, Poland)
16:00-16:30	Heavy Flavor and Quarkonia Production at LHCb Katharina Müller (University of Zurich, Switzerland)
16:30-17:00	Afternoon Tea
Afternoon: Plenary Session Chair: Jean Cleymans (Cape Town, South Africa)	
17:00-17:45	The Higgs Portal and the Early Universe Michael Spannowsky (IPPP Durham, UK)
Evening: Dinner	

KRUGER2016 4-9 December 2016 Programme	
Wednesday 7 December	
Morning: Plenary Session Chair: Thomas Dietel (Cape Town, South Africa)	
10:00-10:45	STAR Beam Energy Scan Declan Keane (Kent State University, Ohio)
10:45-11:30	Status of the NICA Project Grigory Trubnikov (JINR, Russia)
11:30-12:00	Morning Tea
12:00-12:45	Higgs Properties and Measurements in ATLAS Lydia Roos (IN2P3/LPNHE, Paris, France)
12:45-13:30	The Future Collider Program Heather Gray (CERN, Switzerland)
13:30-14:30	Lunch
Afternoon: Parallel Session V Chair: Sahal Yacoob (Cape Town, South Africa)	
14:30-15:00	Results from ttH/VH Searches in ATLAS Mirkoantonio Casolino (IFAE – UAB, Barcelona, Spain)
15:00-15:30	Exploring the top-Higgs FCNC couplings at colliders Blaženka Melić (Rudjer Boskovic Institute, Zagreb, Croatia)
15:30-16:00	Using integral and differential charge asymmetries in searches for BSM physics at the LHC Steve Muanza (CPPM Marseille, France)
16:00-16:30	Systematics of quark/gluon tagging Deepak Kar (WITS, South Africa)
Afternoon: Parallel Session VI Chair: Trambak Bhattacharyya (Cape Town, South Africa)	
14:30-15:00	Results and plans for the study of heavy ion collisions at LHCb Patrick Robbe (LAL Orsay, France)
15:00-15:30	Production of Nuclei, Hyper-Nuclei and Exotics in the ALICE Detector Benjamin Dönigus (Goethe University Frankfurt, Germany)
15:30-16:00	Holography at Tc Burkhard Kampfer (HZDR, Dresden, Germany)
16:00-16:30	Time Dependent Qhat from AdS/CFT William Horowitz (University of Cape Town, South Africa)
16:30-17:00	Afternoon Tea
Afternoon: Plenary Session Chair: Olaf Steinkamp (Zurich, Switzerland)	
17:00-17:45	Heavy Flavor Spectroscopy at LHCb Rafael Silva Coutinho (University of Zurich, Switzerland)
Evening: Dinner	

KRUGER2016 4-9 December 2016 Programme	
Thursday 8 December	
Morning: Plenary Session Chair: Deepak Kar (WITS, South Africa)	
10:00-10:45	A Case for an Underground Neutrino Facility in South Africa Zebon Vilakazi (WITS, South Africa)
10:45-11:30	The LPPP - A Particle Physics Simulation for Outreach Harald Fox (Lancaster University, UK)
11:30-12:00	Morning Tea
12:00-12:25	Possible dark matter interactions with extended scalar sectors Alan Cornell (NITheP, Gauteng, South Africa)
12:25-12:45	Chiral symmetry restoration versus deconfinement in heavy-ion collisions at high baryon density Elena Bratkovskaya (GSI & Frankfurt University, Germany)
12:45-13:30	The CMS Detector Upgrade and potential for future physics Ettore Focardi (University of Florence, Italy)
13:30-14:30	Lunch
Afternoon: Parallel Session VII Chair: Zinhle Buthelezi (iThemba LABS, South Africa)	
14:30-15:00	Results on Higgs Boson Physics from CMS Paolo Azzurri (INFN, Pisa, Italy)
15:00-15:30	The SHiP Experiment at CERN Walter Bonivento (INFN Cagliari, Italy)
15:30-16:00	Wave-function and CKM renormalization: the case for new physics Domenec Espriu (University of Barcelona)
16:00-16:30	The Madala Hypothesis - Theory and Constraints Mukesh Kumar (WITS, South Africa)
Afternoon: Student Session I Chair: Sahal Yacoob (Cape Town, South Africa)	
14:30-14:50	Vector bosons measurement at forward rapidity with ALICE Johnson Senosi (University of Cape Town, South Africa)
14:50-15:10	Exploring LHC Run 1 and 2 data using the Madala hypothesis Stefan von Buddenbrock (WITS, South Africa)
15:10-15:30	An outlook of the study of the measurement of cross sections using the van der Meer technique Sibaliso Mhlanga (University of Cape Town, South Africa)
15:30-15:50	New physics signatures with final state containing a Z and a Higgs Boson and significant missing energy and the LHC Tshidiso Molupe (WITS, South Africa)
15:50-16:10	Neutron induced radiation damage of plastic scintillators for the upgrade of the Tile Calorimeter of the ATLAS detector Joyful Mdhuli (WITS, South Africa)

Afternoon: Student Session II Chair: Alan Cornell (WITS, South Africa)	
14:30-14:50	Evolution of gauge couplings and Weinberg angle in 5-dimensions for an SU(5), flipped SU(5) and G_2 gauge group Mohammed Khojali (WITS, South Africa)
14:50-15:10	Short Path Length Energy Loss in the Quark Gluon Plasma Isobel Kolbe (University of Cape Town, South Africa)
15:10-15:30	IR Divergences in Massless QED Abdullah Ibrahim (University of Cape Town, South Africa)
15:30-15:50	Medium-induced radiation beyond the Poisson Approximation Andriniaina Rasonaivo (University of Cape Town, South Africa)
15:50-16:10	Some applications of the Tsallis Distribution in High Energy Collisions Trambak Bhattacharyya (University of Cape Town, South Africa)
16:30-17:00	Afternoon Tea
Afternoon: Plenary Session Chair: William Horowitz (Cape Town, South Africa)	
17:00-17:45	Review of SUSY Searches at CMS Greg Landsberg (Brown University, USA)
Evening: Dinner	

KRUGER2016 4-9 December 2016 Programme	
Friday 9 December	
Morning: Plenary Session Chair: Massimiliano Marchisone (iThemba LABS, South Africa)	
10:00-10:45	Standard Model and Top Measurements in ATLAS Kate Shaw (ICTP, Trieste, Italy)
10:45-11:30	ALICE Results on Quarkonia and Open Heavy Flavours Diego Stocco (Subatech, Nantes, France)
11:30-12:00	Morning Tea
12:00-12:45	CP violation in b- and c-hadron decays at LHCb Olaf Steinkamp (Physik-Institut der Universität Zürich, Switzerland)
12:45-13:30	Early thermalisation, hydrodynamics, and energy loss in holographic heavy ion collisions Wilke van der Schee (MIT, USA)
13:30-14:30	Lunch
Afternoon: Parallel Session VIII Chair: Aldo Deandrea (Lyon, France)	
14:30-15:00	Light Exotic Higgs Bosons at the LHC Shoaib Munir (KIAS, Korea)
15:00-15:30	Searches for Physics Beyond the Standard Model at CMS Jacopo Pazzini (Padova University, INFN, Italy)
15:30-16:00	Testing the Standard Model with Rare Decays at LHCb Siim Tolk (University of Cambridge, UK)
16:00-16:30	The LHCb Upgrade Alessio Piucci (Physikalisches Institut Heidelberg, Germany)
Afternoon: Parallel Session IX Chair: Thomas Dietel (Cape Town, South Africa)	
14:30-15:00	Results on Top-Quark Physics and Top-Quark-Like Signatures by CMS Eric Chabert (IPHC/Unistra, Strasbourg, France)
15:00-15:30	Collisions of small nuclei in Heavy Ion Collisions Jean Cleymans (University of Cape Town, South Africa)
15:30-16:00	Expansion of a plasma based on the Nambu-Jona-Lasinio Lagrangian Joerg Aichelin (Subatech, Nantes, France)
16:00-16:30	Nuclear modification of light-flavour and strangeness at LHC energies with ALICE Ramona Lea (INFN Trieste, Italy)
16:30-17:00	Afternoon Tea
Afternoon: Plenary Session Chair: Jean Cleymans (Cape Town, South Africa)	
17:00-17:45	Horst Stoecker (GSI/FIAS/Goethe Universität, Germany)
Evening: Dinner	