

## Sunday 28 October @ Hotel Fire & Ice

18:00	<b>Registration</b>
19:00	<b>z</b>

## Monday 29 October @ iThemba LABS

09:00		Opening and Welcome	Ricky Smit and Faiçal Azaiez
09:10	<b>Session 1</b> <i>Novel Instrumentation</i> Chair: Peter von Neumann-Cosel	Towards first experiments with brilliant gamma-beams at ELI-NP*	Dimiter Balabanski
09:40		The continuous quest for reaching new Horizons @ GANIL	Navin Alahari
10:10		Research at iThemba LABS - opportunities in nuclear science and applications	Mathis Wiedeking
10:40	<b>Coffee/Tea break</b>		
11:10	<b>Session 2</b> <i>Giant Resonances in cold and hot nuclei</i> Chair: Umesh Garg	What do we learn from our giant resonances experiment?	Yiu-Wing Lui
11:40		Isospin mixing studied via GDR	Franco Camera
12:10		Study of giant resonances in storage ring experiments with EXL	Thorsten Kröll
12:40		Are the Molybdenums Fluffy Too?	Kevin Howard
13:00	<b>Lunch</b>		
14:00	<b>Session 3</b> <i>Spin and isospin modes</i> Chair: Karlheinz Langanke	Search for second order response of nuclei to isospin probes and their connection to double beta decay	Francesco Cappuzzello
14:30		Gamow-Teller Transitions in Nuclei: An Overview	Yoshitaka Fujita
15:00		Recent progress in quest of spin and spin-isospin excitations	Hiroyuki Sagawa
15:30		On the discovery of a new light particle in high energy nuclear transitions	Attila Krasznahorkay
16:00	Conference Photo & Coffee break		
16:30	iThemba LABS tour		
17:30	<b>Poster session &amp; refreshments</b>		
19:00	iThemba LABS braai		

## Tuesday 30 October @ Hotel Fire & Ice

08:00	<b>Session 4</b>  <i>Chair: Faiçal Azaiez</i>	Welcome	Dr Faiçal Azaiez, Director, iThemba LABS
08:10		Address by the Minister of Science and Technology	Honourable Minister Mrs Kubayi-Ngubane
08:50		Vote of thanks	Dr Clifford Nxomani, Deputy CEO, NRF
09:00	<b>Coffee/Tea break</b>		
09:30	<b>Session 5</b>  <i>Chair: Faiçal Azaiez</i>	Nuclear Physics: exploring the universe	Prof Dr Karlheinz Langanke, GSI, Germany
10:00		Large scale facilities in nuclear physics: science and society impact	Prof Dr Sydney Galès, IPN Orsay, France
10:30	<b>Coffee/Tea break</b>		
10:50	<b>Session 6</b>  <i>Collective and new excitation modes</i>  <i>Chair: Sydney Galès</i>	Recent progress in experimental studies of the Pygmy Dipole Resonance	Andreas Zilges
11:20		Pygmy dipole resonances in deformed nuclei	Edoardo G. Lanza
11:50		The study of the Pygmy Dipole Resonance at iThemba LABS	Luna Pellegrini
12:20		Search for new E1 states in neutron rich nuclei around neutron separation energy	Oliver Wieland
12:40		Nature of Pygmy dipole excitation in $^{74}\text{Ge}$	Dinesh Negi
13:00	<b>Lunch</b>		
14:00	<b>Session 7</b>  <i>Novel Instrumentation</i>  <i>Chair: Navin Alahari</i>	PARIS: status and the latest results	Michał Ciemala
14:30		Novel collective modes of nuclei using INGA: Results and Opportunities	Rudrajyoti Palit
15:00		Study of Giant Resonances with active targets	Simone Ceruti
15:20		Design and Development of GRAT (Giant Resonances Active Target), a dedicated target for studying resonances in nuclei	Alex Antony Arokiaraj
15:40		High-resolution gamma-ray spectroscopy at Legnaro National Laboratories: the avenue to SPES	Daniele Mengoni
16:00	<b>Coffee/Tea break</b>		
16:30	<b>Session 8</b>  <i>Giant Resonances in cold and hot nuclei</i>  <i>Chair: Thomas Aumann</i>	The study of giant resonances excited by scattered protons at CCB IFJ PAN in Kraków	Maria Kmiecik
17:00		Recent Results from Proton Scattering Experiments at RCNP	Atsushi Tamii
17:20		Evolution of the Electric Dipole Response in the Stable Sn Isotope Chain	Peter von Neumann-Cosel
17:40		The GDR gamma-decay gated by isomers in $^{188}\text{Pt}$ : preliminary results from the PARIS + nuBall experiment	Barbara Wasilewska
18:00		Gamma decay of the isovector giant dipole resonance of $^{90}\text{Zr}$ and its fine structure	Shoken Nakamura
18:20		Deformation dependence of the IsoVector Giant Dipole Resonance: The Nd and Sm isotope chains revisited	Lindsay Donaldson

## Wednesday 31 October @ Hotel Fire & Ice

08:30	<b>Session 9</b>	Threshold physics - precision measurements in light nuclei	Tzany Kokalova
09:00	<i>Clustering and pairing in excitations</i>  Chair: Atsushi Tamii	Structure and Responses of nuclei studied by real-time evolution method	Masaaki Kimura
09:30		Clustering in the time -dependent density functional theory framework	Bastian Schuetrumpf
10:00		Studying the decay of $^{46}\text{Ti}^*$ at different excitation energies and through different entrance channels: does partner structure influence the competing mechanisms and the following compound nucleus decay?	Fabiana Gramegna
10:20		Searching for clustering structure effects of reacting partners through competing fast and thermal emission processes	Daniela Fabris
10:40	<b>Coffee/Tea break</b>		
11:10	<b>Session 10</b>	Analog pygmy-dipole resonance and low-lying charge-exchange dipole state in neutron-rich nuclei	Kenichi Yoshida
11:40	<i>Collective and new excitation modes</i>  Chair: Adam Maj	Search for the rare gamma-decay mode in $^{12}\text{C}$	Takahiro Kawabata
12:00		Multi-messenger investigation of the Pygmy Dipole Resonance	Deniz Savran
12:20		The Inverse-Oslo method	Sunniva Siem
12:40		Statistical Properties of highly-deformed Samarium isotopes	Kgashane Malatji
13:00	<b>Packed lunch on bus</b>		
<p>Afternoon: Excursion</p> <p>A trip to:</p> <p>Cape Point Nature Reserve &amp; the Simonstown Boulders Penguin Colony</p>			

## Thursday 1 November @ Hotel Fire & Ice

08:20	<b>Session 11</b>	A beyond-mean-field description for nuclear excitation spectra: applications of the subtracted second random-phase approximation	Marcella Grasso
08:50	<i>Giant Resonances in cold and hot nuclei</i>	Giant resonances in Tin-region unstable nuclei	Shinsuke Ota
09:20	Chair: Vandana Nanal	From the nuclear EoS straight to nuclear collective motion	Panagiota Papakonstantinou
09:40		Evolution to neutron rich isotopes in the fine structure of the Isoscalar Giant Monopole Resonance in 40,42,44,48Ca using alpha inelastic scattering at zero degrees	Sunday Olorunfunmi
10:00		Nuclear incompressibility from spherical and deformed nuclei	Gianluca Colò
10:20	<b>Coffee/Tea break</b>		
10:50	<b>Session 12</b>	Stellar carbon-burning via the Trojan Horse Method	Aurora Tumino
11:20	<i>Applications in astrophysics</i>	Neutron-capture reaction rates for astrophysical applications	Sean Liddick
11:50	Chair: Muhsin Harakeh	Impact of Neutron Star Merger and Supernova Nucleosynthesis on the Element Genesis and Neutrino Physics	Toshitaka Kajino
12:20		Nuclear structure at the proton drip line	Lidia Ferreira
12:40		Stellar weak-interaction rates from deformed QRPA calculations	Pedro Sarriguren
13:00	<b>Lunch</b>		
14:00	<b>Session 13</b>	Ab Initio Description of Collective Excitations	Robert Roth
14:30	<i>Collective and new excitation modes</i>	Toroidal mode: from giant resonances to individual states	Valentin Nesterenko
14:50	Chair: Elena Litvinova	Light charged particle multiplicities in fusion and quasifission reactions	Nikolai Antonenko
15:10		Octupole excitation in super heavy nuclei and J=4 isomeric states in N=100 isotones described by a same QRPA approach	Sophie Peru
15:30	<b>Coffee/Tea break</b>		
16:00	<b>Session 14</b>	Spectroscopy of rare isotopes with direct reactions	Rituparna Kanungo
16:30	<i>Novel Instrumentation</i>	Latest Developments of The South African Isotope Facility	Robert Bark
	Chair: Francesco Cappuzzello		
16:50	<b>Advisory Committee meeting</b>		

**Conference Dinner @ 1830 (sunset 19h13)**

## Friday 2 November @ Hotel Fire & Ice

08:50	<b>Session 15</b>	The role of pairing in heavy-ion induced transfer reactions	Manuella Cavallaro
09:20	<i>Spin and isospin modes</i>	The nuclear symmetry energy and the breaking of the isospin symmetry: how do they reconcile with each other?	Xavier Roca Maza
09:40	Chair: Yoshi Fujita	Nuclear structure studies relevant to double beta decay of $^{136}\text{Xe}$	Bernadette Rebeiro
10:00		Role of Tensor Force in Magnetic Dipole Transitions in Cr-52	Paul Stevenson
10:20		Pairing in highly excited nuclei	Nguyen Dinh Dang
10:40	<b>Coffee/Tea break</b>		
11:10	<b>Session 16</b>	Nuclear response at zero and finite temperature	Elena Litvinova
11:40	<i>Giant Resonances in cold and hot nuclei</i>	Microscopic description of pygmy dipole resonance in neutron-rich Ca isotopes	Nikolay Arsenyev
12:00	Chair: Fabiana Gramegna	Electric dipole strength and dipole polarizability in $^{48}\text{Ca}$ within a fully self-consistent second random-phase approximation	Danilo Gambacurta
12:20		Unravelling $^{12}\text{C}$ , the ISGMR and the Hoyle's ghost.	Kevin Li
12:40		Investigating the Evolution of the Pygmy Dipole Resonance with deformation in Samarium isotopes	Harshna Jivan
13:00	<b>Lunch</b>		
14:00	<b>Session 17</b>	Fission of heaviest nuclei	Gurgen Adamian
14:30	<i>Clustering and pairing in excitations</i>	Strong neutron pairing in the core+4n $^{18}\text{C}$ and $^{20}\text{C}$ nuclei	Olivier Sorlin
15:00	Chair: Tzany Kokalova	Study of the Jacobi shape transition in $A \approx 30$ nuclei	Vandana Nanal
15:20	<b>Coffee/Tea break</b>		
15:50	<b>Session 18</b>	Gamma decay of pygmy states in $^{90,94}\text{Zr}$ from inelastic scattering of light ions	Fabio Crespi
16:20	<i>Collective and new excitation modes</i>	Nuclear polarizability effects at low and high excitation energies	Nico Orce
16:40	Chair: Smarajit Triambak	Enhancement of E1 strength in nuclei with the neutron skin and halo	Nobuyuki Kobayashi
17:00		Galactic Production of $^{138}\text{La}$ : Impact of $^{138,139}\text{La}$ statistical properties	BV Kheswa
17:20	<b>Conference closing &amp; student prizes announcement</b>		