### **Monday 19 November 2012**

08:00-09:00	Tea/Coffee on arrival and Registration
09:00-10:30	Session: Pygmy Dipole Resonance in Nuclei (I)
09:00	John Carter (Wits U, South Africa): Opening Address
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09:10	Andreas Zilges (U Köln, Germany): <i>The Pygmy Dipole Resonance - History and Overview</i>
09:50	Nadia Tsoneva (U Giessen, Germany): Spectral distributions of E1 and M1 Strengths at PDR Energies
10:30-11:00	Coffee Break
11:00-13:00	Session: Spectrometer Facilities at RCNP and iTThemba LABS
11:00	Kichiji Hatanaka (RCNP Osaka, Japan): High Energy-Resolution Measurements at RCNP
11:40	Retief Neveling (iThemba LABS, South Africa): The K600 at iThemba LABS
12:20	Maxwell Jingo (Wits U, South Africa): Investigation of Fine Structure of the Isovector Giant Dipole Resonance in Nuclei Across the Periodic Table Using Proton Inelastic Scattering at Zero Degrees
12:40	Lindsay Donaldson (Wits U, South Africa): Fine Structure of the Isovector Giant Dipole Resonance Using the (p),pR eaction at Zero Degrees: Effects of Strong Nuclear Deformation
13:00-14:30	Lunch
14:30-15:50	Session: Gamow-Teller Strength
14:30	Dieter Frekers (U Münster, Germany): Experimental Results on Double-Beta Decay Matrix Elements, or What Did We Learn After so Many Years of Charge-Exchange Reaction
15:10	Yoshitaka Fujita (U Osaka, Japan): <i>Nuclear Structure Made Clear by Gamow-Teller Transitions</i>
15:50-16:20	Coffee Break
16:20-18:00	Session: Gamma Strength Functions
16:20	Sunniva Siem (U Oslo, Norway): Small Resonances on the Tail of the Giant Dipole Resonance
17:00	Mathis Wiedeking (iThemba LABS, South Africa): Low-Energy Enhancement of the Photon Strength Function
17:40	Dirk Martin (TU Darmstadt, Germany): Do We Understand Gamma Strength Functions - the Case of <sup>96</sup> Mo

### **Tuesday 20 November 2012**

08:00-09:00	Tea/Coffee on arrival
09:00-10:20	Session: Visit by the Minister of Science
09:00	Zeblon Vilakazi (Director, iThemba LABS, South Africa): Welcome address
09:10	Derek Hanekom (Minister of Science, Pretoria, South Africa): Address on the Occasion of the South African-German Year of Science
09:30	Roland Herrmann (Consul General, Federal Republic of Germany, Cape Town): Reply to Minister's address
09:40	Peter von Neumann-Cosel (TU Darmstadt, Germany): <i>Two Decades of</i>
10:05	German/South African Scientific Collaboration – Physics on the Small Scale  Retief Neveling (iThemba LABS, South Africa): The K600 Spectrometer Project
10:20-11:00	Coffee Break
11:00-13:00	Session: Facets of Nuclear Structure
11:00	Norbert Pietralla (TU Darmstadt, Germany): Unique Information on Proton-Neutron Structure of Nuclear States from Combined Electromagnetic and Hadronic Scattering Experiments
11:40	Elena Litvinova (MSU, USA): Dynamical Correlations in Nuclear Spectra
12:20	Kai Zuber (TU Dresden, Germany): Magnetic Spectrometer Measurements for Double Beta Decay
13:00-14:30	Lunch
14:30-15:50	Session: Zero Degree (p,t) Reaction – Structure and Astrophysics
14:30	Georg Berg (U Notre Dame, USA): Precision Measurements for the Cosmic rp- Process
15:10	Nico Orce (U Western Cape, South Africa): The Complexity of Low-Lying 0 <sup>+</sup> Excitations
15:30	Alexander Long (U Notre Dame, USA): Exploring the αp-Process with High Precision (p,t) Reactions
15:50-16:20	Coffee Break
16:20-17:40	Session: Pygmy Dipole Resonance (II)
16:20	Deniz Savran (GSI, Germany): On the Nature of the Pygmy Dipole Resonance
17:00	Janis Endres (U Köln, Germany): Overview of Experimental Conditions for (α,α'γ) Coincidence Experiments

### Wednesday 21 November 2012

08:00-09:00	Tea/Coffee on arrival
09:00-10:40	Session: E1 Response in Nuclei
09:00	Atsushi Tamii (RCNP Osaka, Japan): <i>Electric Dipole Response of</i> <sup>208</sup> <i>Pb: PDR, Neutron Skin, and Symmetry Energy</i>
09:40	Jonny Birkhan (TU Darmstadt, Germany): Dipole Polarizability of <sup>48</sup> Ca
10:00	Vladimir Ponomarev (TU Darmstadt, Germany): Fine Structure of the Pygmy Resonance
10:40-11:10	Coffee Break
11:10-12:50	Session: Fine structure of the Giant Quadrupole Resonance
11:10	Iyabo Usman (Wits U, South Africa): Overview of Experiments on the Fine Structure of the Isoscalar Giant Quadrupole Resonance at iThemba LABS
11:50	Dieter Heiss (U Stellenbosch, South Africa): Time Scales in Nuclear Giant Resonances
12:30	Oscar Kureba (Wits U, South Africa): Effects of Nuclear Deformation on the Fine Structure of the Isoscalar Giant Quadrupole Resonance of Even-Even Neodymium Isotopes using Proton Inelastic Scattering
12:50-14:00	Lunch
14:00-16:20	Session: Alpha Clustering in Nuclei
14:00	Takahiro Kawabata (U Kyoto, Japan): Search for α condensed state in <sup>24</sup> Mg
14:40	Christian Diget (U York, Great Britain): Cluster-Induced Reactions in Astrophysics
15:20	Jacobus Swartz (U Stellenbosch, South Africa): Search for the $0^+5$ $\alpha$ -Cluster State in $^{20}$ Ne
15:40	Satoshi Adachi (U Kyoto, Japan): <i>Measurement of Radiative Widths of Excited States Above the α-Decay Threshold in</i> <sup>12</sup> C
16:00	Fhumulani Nemulodi (U Stellenbosch, South Africa): Characterization of the 2 <sup>+</sup> Excitation of the Hoyle State in <sup>12</sup> C
	Design to the Conference Version (at 171 and a 1400
16:30	Bus departs from Conference Venue for iThemba LABS
16:30 17:00-22:00	Tour of iThemba LABS facility

### **Thursday 22 November 2012**

08:00-09:00	Tea/Coffee on arrival
09:00-10:20	Session: Chaos and Level Densities
09:00	Sven Åberg (U Lund, Sweden): Chaos and Pairing
09:40	Roger Fearick (U Cape Town, South Africa): Fine Structure and 1 <sup>-</sup> Level Densities in the GDR Region in Light N=Z Nuclei
10:20-10:50	Coffee Break
10:50-13:00	Session: M1 Strength and New Facilities
10:50	Hiroaki Matsubara (RIKEN, Japan): Isoscalar and Isovector Spin-M1 Transition Strengths and Tensor Force Effect in N=Z and Even-Even Nuclei
11:30	Robert Bark (iThemba LABS, South Africa): Future Development of iThemba LABS
12:10	Peter Egelhof (GSI, Germany): Exotic Nuclei Studied by Direct Reactions at Low Momentum Transfer – Recent Results and Future Perspectives at FAIR
12:50	Peter von Neumann-Cosel (TU Darmstadt, Germany): Closing Address
13:00-14:30	Lunch
14:30-17:30	Open Round-Table Discussion
	Planning for the Future of the iThemba LABS Spectrometer Facility