

International Conference on Concepts & Issues in Fundamental & Applied Nuclear Physics

IX Tastes of Nuclear Physics @ UniZulu #TNP19 30 September - 4 October 2019

September 30 th (Monday)	9:00 - 9:10	Welcome by VC @ UniZulu	Chairs: Nico Orce & Sifiso Ntshangase
	9:10 - 9:20	Welcome by DHET/DST DDG	
	9:20 - 9:30	Welcome by Dean @ UWC	
	9:30 - 10:00	25 Years of Material Science @ CERN Kish Bharuth-Ram	
	10:00-10:30	Aspects of Nuclear Physics @ UniZulu Sifiso Ntshangase	
	10:30 - 11:00	Coffee with Students (IX Tastes NP Group Photo)	
	11:00 - 11:30	Pear-Shaped Nuclei I Peter Butler	
	11:30 - 12:00	β -Decay Studies @ iThemba LABS Daphney Bucher	
	12:00 - 12:30	New Beams @ iThemba LABS Ntombi Kheswa	
	13:00 - 14:00	Lunch with Students	
	14:00 - 15:30	Theory Workshop Ab Initio Theory for Nuclei: Interactions Jason Holt / Werner Richter	
	15:30 - 16:15	Next Generation Talks (10+5 min) Cobo Ngwetshe (PhD, UWC) Elijah Akakpo (PhD, UWC) Sizwe Mhlongo (MSc, UniZulu)	
	16:15 - 16:30	Coffee with Students	
	16:35 - 18:15	G&ANT on the Cloud	
18:30 - 20:30	Celebrating KBR's 25 Years @ CERN		

October 3 rd (Thursday)	9:00 - 9:45	Spherical Nuclei & Seniority-Dominated Coupling John Wood	Chair: Paul Garrett
	9:45 - 10:15	Coffee with Students	
	10:15 - 10:45	Spherical Nuclei & Seniority-Dominated Coupling John Wood	
	10:45 - 11:15	Is Nuclear Physics a Waste of Time? Robbie Lindsay	
	11:15 - 11:45	Nuclear Applications David Jenkins	
	11:45 - 12:15	Nuclear Shapes and the Astrophysical rp-Process Enrique Nacher	
	12:15 - 12:45	Reaction Dynamics: Weakly Bound Nuclei at Coulomb Energies / Alexis Diaz Torres	
	12:45 - 13:45	Lunch with Students	
	13:45 - 14:15	Gamma-ray Detection for Coulomb Excitation Magda Zielinska	
	14:15 - 14:45	Search for Triaxial Deformation Mitch Allmond	
	14:45 - 15:15	Where Are the Nuclear Shape Vibrations? John Sharpey-Schaffer	
	15:15 - 16:00	Next Generation Talks (10+5 min) Thuthukile Khumalo (MSc, UniZulu) Kenzo Abrahams (PhD, UWC) Blaine Lomborg (PhD, UWC)	
	16:00 - 16:15	Coffee with Students	
	16:15 - 17:45	G&ANT on the Cloud	
18:00 - 19:30	Dinner with Students		
19:30 - 20:30	Recent Advances in Neutrino Science: A Whole Lot About Almost Nothing Public Lecture by Eric Norman		

October 1 st (Tuesday)	9:00 - 9:45	Spherical Nuclei & Seniority-Dominated Coupling John Wood	Chair: Jason Holt
	9:45 - 10:15	Coffee with Students	
	10:15 - 10:45	Spherical Nuclei & Seniority-Dominated Coupling John Wood	
	10:45 - 11:15	Pear-Shaped Nuclei II Peter Butler	
	11:15 - 11:45	Complementary Measurements I Paul Garrett	
	11:45 - 12:15	Angular Correlations Kobus Laurie	
	12:15 - 12:45	Rotations in Triaxial Nuclei Elena Laurie	
	12:45 - 13:30	Lunch with Students	
	13:30 - 14:00	Ab initio Theory for Nuclei Jason Holt	
	14:00 - 14:25	Modern African Nuclear Detector Laboratory Kushal Kapoor	
	14:30 - 21:00	Safari to Hluhluwe Game Reserve: Where the Last Rhinos Roam (Transportation to /fro Hluhluwe Game Reserve. A nominal fee of R500 will be charged for Entrance+Game Drive)	

October 2 nd (Wednesday)	9:00 - 9:45	Nuclear Forensics Eric Norman	Chair: Zina Ndlovu
	9:45 - 10:15	Coffee with Students	
	10:15 - 10:45	$^{12}\text{C} + ^{12}\text{C}$ Fusion Reaction David Jenkins	
	10:45 - 11:15	Hadron Physics Mikhail Bashkanov	
	11:15 - 11:45	Test of Particle-Core Coupling Mitch Allmond	
	11:45 - 12:15	Collective Phenomena in Low-Lying States of Nuclei with N-90 Siyabonga Majola	
	12:15 - 13:15	Lunch with Students	
	13:15 - 14:45	Theory Workshop Alexis Diaz Torres Quantum Tunneling in Nuclear Fusion Status of the Giant Dipole Resonance Lindsay Donaldson	
	15:00 - 15:30	Upgrade of iThemba LABS Neutron Beam Facility Zina Ndlovu	
	15:30 - 16:00	Molecular Structures in Slow Nuclear Collisions Alexis Diaz Torres	
	16:00 - 16:30	Coffee with Students	
	16:30 - 16:45	Next Generation Talks (10+5 min) Phyoile Bulala (MSc, UCT) Phefo Lebogang (MSc, UniZulu) MfANuS Students (UniZulu/UWC)	
	16:45 - 17:00	Coffee with Students	
	17:00 - 19:00	Relaxing Poster Session	
19:00 - 21:00	Next Generation Awards + Alumni Celebration		

October 2 nd (Wednesday)	9:00 - 9:45	Fifty Years of Oncology in KZN, South Africa - Past, Present and Future Public Lecture by Almo Jordaan	Chair: Sifiso Ntshangase
	9:45 - 10:15	Coffee with Students	
	10:15 - 10:45	Complementary Measurements II Paul Garrett	
	10:45 - 11:15	Decay Spectroscopy of Neutron-Rich Cadmium Nikita Bernier	
	11:15 - 11:45	Particle Detectors for Coulomb Excitation Magda Zielinska	
	11:45 - 12:15	Medical Imaging Mikhail Bashkanov	
	12:15 - 12:45	Nuclear Shapes and the Astrophysical rp-Process Enrique Nacher	
	12:45 - 13:45	Lunch with Students	
	13:45 - 15:15	Theory Workshop Shell Model Jason Holt / Werner Richter Next Generation Talks (10+5 min) Matthew Segal (PhD, UCT) Linda Mdlalsha (PhD, UniZulu) Sinegugu Mthembu (PhD, UniZulu/UWC)	
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	16:00 - 16:15	Coffee with Students	
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	18:00 - 19:30	Dinner with Students	
	19:30 - 20:30	From Quarks to the Cosmos Public Lecture by Azwindini Muroga	



Let's do Physics!



UNIVERSITY OF ZULULAND
RESTRUCTURED FOR RELEVANCE

Important: every speaker should kindly allow at least 5min for discussions

More info @ <http://nuclear.uwc.ac.za/index.php/TNP2019>