

Inpc 2016

INTERNATIONAL NUCLEAR PHYSICS CONFERENCE

ADELAIDE, AUSTRALIA
ADELAIDE CONVENTION CENTRE
11-16 September 2016

www.inpc2016.com



Program Committee:

Mahananda Dasgupta ANU
Abhay Deshpande SUNY
Andrew Stuchbery ANU
Emiko Hiyama RIKEN
Tohru Motobayashi RIKEN
Anthony Thomas UofA
Wolfram Weise ECT*
Bing Song Zou CAS

Local Organising Committee:

Michael Hotchkis ANSTO
Derek Leinweber UofA
Anthony Thomas UofA
Anthony Williams UofA
Ross Young UofA
James Zanotti UofA

International Advisory Committee:

Nicolas Alamanos CEA Saclay
Thomas Aumann GSI & TU Darmstadt
Faïçal Azaiez IN2P3
Jonathan Bagger TRIUMF
Yorick Blumenfeld IN2P3
Angela Bracco Milano
Stanley J. Brodsky Stanford
Philippe Chomaz CEA-Saclay
Jens Dilling TRIUMF
Marco Durante GSI
Rolf Ent Jefferson Laboratory
Avraham Gal Jerusalem
Sydney Galès CNRS
Michel Garçon CEA-Saclay
Konrad Gelbke Michigan
Muhsin N. Harakeh Groningen
Sotirios Harissopulos Demokritos
Wick Haxton California-Berkeley
David Hinde ANU
Morten Hjorth-Jensen Michigan
Dave Ireland Glasgow
Rauno Julin Jyväskylä

Ralf Kaiser Glasgow
Taka Kajino Tokyo
Reiner Kruecken TRIUMF
Karlheinz Langanke Darmstadt
Alinka Lépine-Szily Sao Paulo
Bao-An Li Texas A&M
Adam Maj Polish Academy of Sciences
Wally Melnitchouk Jefferson Laboratory
Dong-Pil Min Seoul
Hugh Montgomery Jefferson Laboratory
Tohru Motobayashi RIKEN
Berndt Mueller Duke
Witold Nazarewicz FRIB
Thomas Nilsson Chalmers
Yuri Oganessian JINR
Alfredo Poves UAM
Achim Richter Darmstadt
Karsten Riisager AARHUS
Marie-France Rivet IN2P3
Craig Roberts Argonne
Guenther Rosner Glasgow
Hiroyoshi Sakurai RIKEN
Helmut Satz Bielefeld

Jurgen Schukraft CERN
Yves Schutz CNRS, CERN
John Simpson Daresbury
Johanna Stachel Heidelberg
Horst Stoecker Goethe Universitat
Hans Stroehrer FZ Jülich
Michael Thoennessen Michigan
Werner Tornow Duke
Vladimir Tretyak Kiev
Robert Tribble BNL
Piet Van Duppen KU Leuven
Willem van Oers Manitoba
Dario Vretenar Zagreb
Thomas Walcher Mainz
Xin-Nian Wang LBL
Wolfram Weise ECT*
Eberhard Widmann Stefan Meyer Institut
Michael Wiescher Notre Dame
Bolek Wyslouch MIT
Victor Zamfir ELI, Romania
Fülöp Zsolt ATOMKI, Hungary

International Nuclear Physics Conference
 SUNDAY 11 September 2016 - FRIDAY 16 September 2016
 Adelaide Convention Centre

As at 30 August 2016

Wednesday, 14 September 2016

Hall L

09:00	<i>Hall L : 09:00 10:30</i> <i>Chairperson: Jonathan Bagger</i>
09:00	Novel Techniques For Constraining Neutron-capture Rates Relevant To Heavy-element Nucleosynthesis Dr Ann-Cecilie LARSEN (University of Oslo)
09:30	Recent Progress In Hypernuclear Physics Prof Hiro TAMURA (Tohoku University)
10:00	The Puzzle Of The r-process Astrophysical Site: A Nuclear Physics Solution? Prof Rebecca SURMAN (University of Notre Dame)
10:30	Morning Tea Break
11:00	IuPAP Prize Winners & Talks <i>Chairperson: Prof Alinka Lepine-Szily (Institute of Physics, University of Sao Paulo)</i>
12:30	Grab/Go Lunch
12:50	Excursion
17:00	Excursion Close

Themes	Applied Nuclear Physics/Nuclear Physics in Medicine
	Fundamental Symmetries and Interactions in Nuclei
	Hot and Dense Nuclear Matter
	Neutrinos and Nuclei
	New Facilities and Instrumentation
	Nuclear Astrophysics
	Nuclear Reactions
	Nuclear Structure A
	Nuclear Structure B
	QCD: Hadron Structure and Spectroscopy (will also accept abstracts in the area Hadrons and hadron-hadron interactions in-medium)
	QCD: Partonic phenomena

International Nuclear Physics Conference
 SUNDAY 11 September 2016 - FRIDAY 16 September 2016
 Adelaide Convention Centre

As at 30 August 2016

Friday, 16 September 2016

	L2	L3	R2	R3	R4	R5	C1	C2	C3
09:00	<p>Hall L : 09:00 10:00 Chairperson: Donald Geesaman (ANL)</p>								
09:00	<p>Frontiers In Ab-initio Nuclear Structure Prof Sonia BACCA (TRIUMF)</p>								
09:30	<p>Structure Of Exotic Nuclei: A Theoretical Review Prof Shan-Gui ZHOU (Institute of Theoretical Physics)</p>								
10:00	<p>Morning Tea Break</p>								
10:30	<p>Hall L : 10:30 12:25 Hypernuclei and clusters Chairperson: Prof Wilton Catford (University of Surrey)</p>								
10:30	<p>Chairperson: Reinner Knucken (TRIUMF)</p>								
10:30	<p>Chairperson: Prof Silvia Lenzi (Padova University and INFN)</p>								
10:30	<p>Chairperson: Weiping Liu (CJAE)</p>								
10:30	<p>Chairperson: Dr Bernhard Lauss (Paul Scherrer Institute)</p>								
10:30	<p>Chairperson: Prof Silvio Cherubini (Associate Professor, University of Catania and INFN-Laboratori Nazionali del Sud)</p>								
10:30	<p>Chairperson: Prof Wolfgang Mittig (FRIB-NSCL)</p>								
10:30	<p>Chairperson: Prof David Ireland (University of Glasgow)</p>								
10:30	<p>Chairperson: Craig Roberts (Argonne National Laboratory)</p>								
10:30	<p>Chairperson: Prof Massimo Massaia (University of Torino and INFN)</p>								
10:45	<p>Enhanced Gamma Vibration And A Long-lived K Isomer In Axially Symmetric ¹⁷²Dy Dr Hiroshi WATANABE (Beihang University / RIKEN Nishina Centre)</p>								
10:45	<p>RHIC Upgrades And Capabilities For The Next Decade Dr Wolfram FISCHER</p>								
10:45	<p>Nucleosynthesis in the First Stars Prof Alexander HEGER (Monash Centre for Astrophysics)</p>								
10:45	<p>Discrete Symmetry Tests In Neutron-Induced Compound States Prof Hirohiko SHIMIZU (Nagoya University)</p>								
10:45	<p>Leptonic CP Violation And Mass Hierarchy In The Presence Of Sterile Neutrino Mr Zachary MATTHEWS (PhD Student, University of Adelaide)</p>								
10:45	<p>Recent Achievements In Fission Dynamics Investigated At High Energies Prof José BENLILUERE (Universidade de Santiago de Compostela)</p>								
10:45	<p>Electroproduction And Transition Form Factors - On The Road To A Bayron Spectrum Prof Philip COLE (Idaho State University)</p>								
10:45	<p>Pertonic Structure Of Hadrons from Lattice QCD Dr James ZANOTTI (University of Adelaide)</p>								
10:45	<p>QCD Thermodynamics On The Lattice from The Gradient Flow Dr Etsuko ITOU (KEK)</p>								
10:55	<p>Coupling Of Alpha- And t-cluster Structures In Excited Deformed States Of ²³Cf Dr Yasutaka TANGUCHI (Nihon Institute of Medical Science)</p>								
10:55	<p>Collective And Single-particle Structures In The Neutron-rich Doubly Mid-shell Nucleus ¹⁷²Dy Dr Söderström PÄR-ANDERS (RIKEN)</p>								
10:55	<p>Research Programs And Plans At The Soreq Applied Research Accelerator Facility SARAF Dr Israel MARDOR (Division Head, Soreq NRC)</p>								
10:55	<p>Recent Results In Nuclear Astrophysics At The n-TOF Facility At CERN Dr Giuseppe TAGLIANTE (Researcher, INFN sez. Bari)</p>								
10:55	<p>Measurement Of Angular Correlations In The (N, γ) Reaction For T Violation Search Mr Takuya OKUDARA (PhD student, Nagoya University)</p>								
10:55	<p>Status Of Global Sterile Neutrino Fits Mr Gabriel COLLIN (Graduate Student, Massachusetts Institute of Technology)</p>								
10:55	<p>Accessing The Long-time Isospin Drift And The Symmetry Energy In Heavy Ion Collisions Prof Zhigang XIAO (Prof., Tsinghua University)</p>								
10:55	<p>Electromagnetic Multipole Moments Of Baryons Dr Alfons BUCHMANN (Lecturer, University of Tübingen)</p>								
10:55	<p>Improved Hadronic Matrix Element Extraction Using The Variational Method Mr Jack DRAGOS (PhD Student, CSSM Adelaide University Physical Sciences)</p>								
10:55	<p>Neutral Mesons And Direct Photons In p-p And Pb-Pb Collisions At Mid-rapidity With ALICE At The LHC Ms Lucia LEARDINI (Physikalisches Institut Heidelberg)</p>								
11:00	<p>Cluster Decay Of The High-lying Excited States In ¹¹C Prof Yanlin YE (Professor, Peking University)</p>								
11:00	<p>Quantum State Selective Decay Spectroscopy Of ²¹³Ra And ²¹³Co Mr Christian LORENZ (PhD student, Lund University)</p>								
11:00	<p>Australian Facility For Noble-gas Radio Isotope Measurements Using Atom Trap Trace Analysis (ATTA) Dr Philip LIGHT (University Research Fellow, University of Adelaide)</p>								
11:00	<p>Half-life Measurement Of Isomeric States In A = 25 And 26 A/Prof Daiki NISHIMURA (Assistant Professor, Tokyo University of Science)</p>								
11:00	<p>Experiment On Search For n-obar Oscillations Using A Projected USC Source At The WWR-M Reactor Dr Alexey FOMIN (Senior Scientist, Petersburg Nuclear Physics Institute)</p>								
11:00	<p>Experiment Neutrino-4 Search For Sterile Neutrino With Multisection Detector Model Prof Anatoli SEREBROV (Head of Department, Petersburg Nuclear Physics Institute)</p>								
11:00	<p>Time-dependent Measurement Of N-Z Equilibration Ms Andrea JEDELE</p>								
11:00	<p>Nucleon Magnetic Properties from Lattice QCD And The Background Field Method Mr Ryan BIGNELL (PhD student, Special Research Centre for the Subatomic Structure of Matter, Department of Physics, University of Adelaide, South Australia 50)</p>								
11:00	<p>Pertonic Charge Symmetry Violation In The Neutron A/Prof Ross YOUNG (University of Adelaide)</p>								
11:00	<p>Direct Virtual Photon Production In Au + Au Collisions At 200 GeV At STAR Dr Chi YANG (University of Science and Technology of China)</p>								
11:15	<p>Microscopic Coupled-channels Study Of The Alpha Cluster Structures In ¹⁶Ne Dr Makoto ITO (Kansai University)</p>								
11:15	<p>Transition Probability Measurements In Os-168 Dr Tuomas GRAHN (Senior Lecturer, University of Jyväskylä)</p>								
11:15	<p>Development Of Secondary Electron Time Detector For Ion Beams Mr Shihji SUZUKI (Faculty of Pure and Applied Sciences, University of Tsukuba)</p>								
11:15	<p>The Statistical Properties Of ¹⁶Mo And Implications For The p-process Dr Gry Merete TVETEN (Post doc, University of Oslo, Department of Physics)</p>								
11:15	<p>Measurement Of Neutron Scattering With Noble Gas To Search For A Short-range Unknown Force At J-PARC Ms Noriko OI (Graduate student, Nagoya University)</p>								
11:30	<p>Direct Determination Of The Radiative Width Of The Hoyle State From Pair Conversion Dr Tibor KIBEDI (The Australian National University)</p>								
11:30	<p>Tests Of Partial Dynamical Symmetries In Deformed And Transitional Nuclei Prof Richard CASTEN (D. Allan Bromley Professor of Physics, Yale University)</p>								
11:30	<p>The ACCULINNA And ACCULINNA-2 Radioactive Ion Beam Facility At Dubna: Status And Perspectives Dr Grzegorz KAMINSKI (Senior Researcher)</p>								
11:30	<p>Test Of The Brink - Axel Hypothesis With Gamma Strength Functions From Forward Angle Inelastic Proton Scattering Prof Peter VON NEUMANN-COSEL (Institut für Kernphysik, Technische Universität Darmstadt)</p>								
11:30	<p>Precise Neutron Lifetime Experiment Using Pulsed Neutron Beams At J-PARC Mr Naoki NAGAKURA (Student, The University of Tokyo)</p>								
11:30	<p>Role Of The Delta Resonance In The Population Of A Four-particle State In The Fe-56 Fe Reaction Prof Zsolt PODOLYAK (University of Surrey)</p>								
11:30	<p>Two-body Wave Functions, Compositeness, And The Internal Structure Of Dynamically Generated Resonances Dr Takayasu SEKHARA (Japan Atomic Energy Agency)</p>								
11:30	<p>Improving Polynomial-filtered Hybrid Monte Carlo With Hasenbusch Mr Taylor HAAR (Postgraduate Student, University of Adelaide)</p>								
11:30	<p>Constraining The Density Dependence Of The Symmetry Energy Using The Multiplicity And Average P.1 Ratios Of Charged Pions Dr Dan COZMA (IFIN-HH)</p>								
11:55	<p>Oblate Deformation And Metastable States In P- and Hg Isotopes Prof Sujit TANDEL (UGC Associate Professor, UM-DAE Centre for Excellence in Basic Sciences)</p>								
11:55	<p>Charge Exchange Reactions Of ¹²C-¹³C And The Beta-decay Strength Prof Isao TANIHATA (Professor, RCNP, Osaka University)</p>								
12:00	<p>Study Of The Charge Symmetry Breaking Effect In Axial Lambda-hypernuclei Via Gamma-ray Spectroscopy Dr Mifuyu UKAI (Associate Professor, IPNS, KEK)</p>								
12:00	<p>Impact Of The First-forbidden Beta Decay On The Production Of The A-195 r-process Peak Prof Zsolt PODOLYAK (University of Surrey)</p>								
12:10	<p>First Direct Observation Of Enhanced Octupole Collectivity In ¹⁴⁴Ba Dr Brian BUCHER (Lawrence Livermore National Laboratory)</p>								
12:15	<p>Refuting The Nature Of The Sixth Dr Hoyle-analogue State Candidate In ¹⁴O Mr Kevin Ching Wei LI (PhD Student, Stellenbosch University, ITemba labs)</p>								
12:25	<p>Lunch Break</p>								
12:30	<p>Lunch Break</p>								
12:30	<p>Lunch Break</p>								
13:30	<p>Hall L : 13:35 15:35 Chairperson: Wim H. van Oers (TRIUMF)</p>								
13:35	<p>Science And Status Of The Electron Ion Collider In The Prof Abhay DESHPANDE (Stony Brook University)</p>								
14:05	<p>The Extreme Light Infrastructure - Nuclear Physics Facility (ELI-NP): Project Implementation And Overview Of The Scientific Program Prof Sydney GALES (ELI-NP and IPN Orsay)</p>								
14:35	<p>Progress Of The Rare Isotope Science Project In Korea Dr Sunchan JEONG (Institute for Basic Science)</p>								
15:30	<p>Closing Ceremony</p>								
Themes	<p>Applied Nuclear Physics/Nuclear Physics In Medicine Fundamental Symmetries and Interactions In Nuclei Hot and Dense Nuclear Matter Neutrons and Nuclei New Facilities and Instrumentation Nuclear Astrophysics Nuclear Reactions Nuclear Structure A Nuclear Structure B QCD: Hadron Structure and Spectroscopy (will also accept abstracts in the area Hadrons and hadron-hadron interactions in-medium) QCD: Partonic phenomena</p>								