



science  
& technology

Department:  
Science and Technology  
REPUBLIC OF SOUTH AFRICA



iThemba  
LABS

Laboratory for Accelerator  
Based Sciences

# NEUTRONS FOR THE NEXT DECADE AND BEYOND

## WORKSHOP PROGRAMME

4-6 February 2019

iThemba LABS

<b>Monday (4 February)</b>	
09h00 - 10h00	<b>Arrival and Registrations</b>
<b>Day 1 Chair: TBC</b>	
10h00 - 10h30	<b>Opening Address: Dr Faïçal Azaiez (iThemba LABS Director)</b>
10h30 - 11h00	<b>Facility introduction: Dr Mathis Wiedeking (Subatomic Physics HoD)</b>
11h00 - 11h30	<b>Morning coffee/tea break</b>
11h30 - 12h00	<b>Peane Maleka</b> iThemba LABS neutron beam facility status and plans
12h00 - 12h30	<b>Andy Buffler</b> 30 years of fast neutron beams at iThemba LABS: retrospective waypoints and future horizons
12h30 - 13h00	<b>Xavier Ledoux</b> Neutron induced reactions studies in the 1-200 MeV energy range
13h00 - 14h00	<b>Lunch break</b>
14h00 - 14h30	<b>Wynand Louw</b> Worldwide Comparability in Measurement
14h30 - 15h00	<b>Alberto Boso</b> Neutron metrology at the National Physical Laboratory
15h00 - 15h30	<b>Jonathan Wilson</b> The LICORNE directional neutron source and its associated physics program
15h30 - 16h00	<b>Afternoon coffee/tea break</b>
16h00 - 17h30	<b>Breakout Discussions</b> * Neutron Metrology * Neutron physics theory and applications

Tuesday (5 February)	
Day 2 Chair: TBC	
09h00 - 09h30	<p style="text-align: center;"><b>Karel Katovsky</b> The Eastern European Cooperation in Fast Neutrons and ADSS Related Research</p>
09h30 - 10h00	<p style="text-align: center;"><b>Darren Bleuel</b> The neutron production facility at the Lawrence Berkeley National Laboratory</p>
10h00 - 10h30	<p style="text-align: center;"><b>Carlo Cazzaniga</b> Design, characterization and commissioning of an atmospheric neutron beamline for the irradiation of microelectronics</p>
10h30 - 11h00	<p style="text-align: center;"><b>Mitja Majerle</b> Neutron production in the <math>7\text{Li}(p,n)</math> reaction in the energy range 17-80 MeV</p>
11h00 - 11h30	<b>Morning coffee/tea break</b>
11h30 - 12h05	<p style="text-align: center;"><b>Jean-Christophe Sublet</b> * Splicing EXFOR for the next decades and beyond * Neutron Science Facility at Seibersdorf</p>
12h05 - 12h35	<p style="text-align: center;"><b>Ralf Nolte</b> Nuclear data measurements at white and quasi-monoenergetic sources of high-energy neutrons</p>
12h35 - 13h05	<p style="text-align: center;"><b>Marcin Bielewicz</b> The New Collaboration of the JINR and the iThemba LABS for Cross-Section (<math>n,xn</math>) Reactions Measurements</p>
13h05 - 14h00	<b>Lunch break</b>
14h00 - 14h30	<p style="text-align: center;"><b>Markus Nyman</b> High-precision measurement of the inelastic neutron scattering cross section of <math>^{19}\text{F}</math> at GELINA</p>
14h30 - 15h00	<p style="text-align: center;"><b>Nicolae Carjan</b> Prompt Fission Neutrons in Coincidence with Well-Defined Fission Fragments: A Dedicated Experiment</p>
15h00 - 15h30	<p style="text-align: center;"><b>Quentin Ducasse</b> Monte Carlo simulations of the present vault</p>
15h30 - 16h00	<b>Afternoon coffee/tea break</b>
16h00 - 17h30	iThemba LABS Tour
18h00 - 21h00	Spitbraai

<b>Wednesday (6 February)</b>	
<b>Day 3 Chair: TBC</b>	
09h30 - 10h00	<b>Frank Gusing</b> MicroMegas-based detectors for neutron-induced reactions
10h00 - 10h30	<b>Jan Novak</b> New detection systems at U-120M cyclotron
10h30 - 11h00	<b>Vitaly Khryachkov</b> The IPPE experience on the use of digital radiation spectrometers in neutron experiments
11h00 - 11h30	<b>Morning coffee/tea break</b>
11h30 - 12h30	<b>Discussion Feedbacks</b> * Neutron metrology * Neutron physics theory and applications
12h30 - 13h00	<b>Closing address: TBC</b>
13h00 - 14h00	<b>Lunch break</b>
14h00 - ??	<b>Departures</b>