

## Schedule Morning Session

TIME	Tue 18 Jan	Wed 19 Jan	Thu 20 Jan	Fri 21 Jan	Sat 22 Jan	Sun 23 Jan	Mon 24 Jan	Tue 25 Jan	Wed 26 Jan	Thu 27 Jan	Fri 28 Jan
08h30-09h30		Ceperley	Bush	Diesmann	Ceperley		Krauth	Trivedi	Ricker	Krauth	Ricker
09h30-10h30		Diesmann	Diesmann	Ceperley	Bush		Trivedi	Ricker	Krauth	Trivedi	Krauth
10h30-11h00		Coffee	Coffee	Coffee	Coffee		Coffee	Coffee	Coffee	Coffee	Coffee
11h00-12h00		Diesmann	Diesmann	Ceperley	Bush		Trivedi	Ricker	Krauth	Trivedi	Dempers
12h00-13h00		Lunch	Lunch	Lunch	Lunch		Lunch	Lunch	Lunch	Lunch	

## Afternoon Session

TIME	Tue 18 Jan	Wed 19 Jan	Thu 20 Jan	Fri 21 Jan	Sat 22 Jan	Sun 23 Jan	Mon 24 Jan	Tue 25 Jan	Wed 26 Jan	Thu 27 Jan	Fri 28 Jan
15h30- 16h00		Coffee	Coffee	Coffee		Coffee	Coffee	Coffee	Coffee	Coffee	
16h00- 17h00	16h30 Reception	Bush	Ceperley	Bush		Panel Discussion <sup>†</sup>	Ricker	Krauth	Trivedi	Ricker	
17h00- 18h00		Gruen	Seoighe	Ilchev			Ngoepe	Lindebaum	Barnard	Petrucione	
18h00- 19h00	Welcome										
19h00- 20h00	Guilini	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	
20h00- 21h00	Dinner	Guilini	Guilini	Heron							

<sup>†</sup>Panel Discussion on the proposed **National Institute for Theoretical Physics** and Future directions for Computational Physics in South Africa – Geyer, Petrucione and Chetty

## Lecturers

NAME	NUMBER LECTURES	TITLE
Barnard	1	Artificial Intelligence
Bush	5	Parallel Algorithms on a cluster of PC's
Ceperley	5	Quantum Monte Carlo
Dempers	1	Mathematica in Physics
Diesmann	5	Synchronization in cortical neural networks – results, techniques and tools
Guilini	3	World Year of Physics lecturer – Einstein's legacy 100 years onwards
Gruen	1	Correlation analysis of multi-dimensional neuronal spike data
Heron	1	The South African War – a history of the region
Ilchev	1	Modelling Seismic Activity in South African Gold Mines
Krauth	6	Computational Statistical Physics: The example of hard spheres
Lindebaum	1	The method of lines in solving PDE's
Ngoepe	1	Computational Material Science at the University of the North
Petrucione	1	Monte Carlo Wave Function Methods for Open Quantum Systems
Ricker	6	Computational Astrophysics
Seoighe	1	Computational Biology in South Africa
Trivedi	6	New Phases and Quantum Phase Transitions