

CoEPP Annual Workshop 2013

Sunday 07 July 2013 - Friday 12 July 2013

Cairns Colonial Club Resort
Programme

Table of contents

| | |
|--|---|
| Sunday 07 July 2013 | 1 |
| Registration & Opening Drinks | 1 |
| Monday 08 July 2013 | 2 |
| Overview of Particle Physics | 2 |
| Interaction of Particles with Matter | 2 |
| Silicon Tracking and Detectors | 2 |
| SUSY | 2 |
| Missing Et at the LHC | 2 |
| Discovery of the Higgs | 2 |
| Composite Higgs Models | 2 |
| Introduction to Event Generators | 2 |
| CoEPP IP Register | 2 |
| Tuesday 09 July 2013 | 3 |
| Fine Tuning in the Scale Invariant NMSSM | 3 |
| Dark Matter and Particle Physics | 3 |
| Neutrino Physics and the LHC | 3 |
| Higgs Physics and Naturalness | 3 |
| The Roadmap to the Higgs at the LHC | 3 |
| Event Generators Workshop | 3 |
| Workshop Dinner | 3 |
| Wednesday 10 July 2013 | 4 |
| Theory Constraints on New Physics | 4 |
| The Future of the High Energy Frontier and the European Strategy | 4 |
| Searches for New Physics with Di-Leptons | 4 |
| The Heavy Higgs Boson:from Standard Model to Beyond | 4 |
| Heavy Flavour Physics | 4 |
| Higgs to WW in ATLAS | 4 |
| Research in Cambridge HEP | 4 |
| Using NeCTAR Resources | 4 |
| Posters | 4 |
| Thursday 11 July 2013 | 5 |
| Outlook for SUSY | 5 |

| | |
|---|---|
| ATLAS Upgrade | 5 |
| An Introduction to GAMBIT | 5 |
| Recent Models of Massive Neutrinos | 5 |
| Displaced Vertices | 5 |
| What Are We Missing in Elliptical Galaxies | 5 |
| MSSM Higgs in Light of LHC Higgs Discovery | 5 |
| Dark Matter Co-annihilation | 5 |
| Friday 12 July 2013 | 6 |
| What is Theory Driving Experiments To Do? | 6 |
| Possible Evolution of the CoEPP Experimental Program | 6 |
| Our Centre: What is working and what could be done better | 6 |
| Outlook and Future | 6 |
| Joint IAC, Board and Executive Meeting | 6 |
| Advisory Board Meeting | 6 |

Sunday 07 July 2013

 **Registration & Opening Drinks (16:00-18:00)**

Monday 08 July 2013

Overview of Particle Physics - Lockhart Room (ground floor) (09:00-09:45)

- Presenters: BARBERIO, Elisabetta

Interaction of Particles with Matter - Lockhart Room (ground floor) (09:45-10:30)

- Presenters: TAYLOR, Geoffrey Norman

Silicon Tracking and Detectors - Lockhart Room (ground floor) (11:00-11:45)

- Presenters: ANDREAZZA, Attilio

SUSY - Lockhart Room (ground floor) (11:45-12:30)

- Presenters: ATHRON, Peter

Missing Et at the LHC - Lockhart Room (ground floor) (14:00-14:45)

- Presenters: CANTORE-CAVALLI, Donatella

Discovery of the Higgs - Lockhart Room (ground floor) (14:45-15:30)

- Presenters: NUNES HANNINGER, Guilherme

Composite Higgs Models - Lockhart Room (ground floor) (16:00-16:45)

- Presenters: RAY, Tirtha Sankar

Introduction to Event Generators - Lockhart Room (ground floor) (16:45-17:30)

- Presenters: Dr. WHITE, Martin; BALAZS, Csaba

CoEPP IP Register - Lockhart Room (ground floor) (17:30-18:00)

- Presenters: Mr. VARVEL, David

Tuesday 09 July 2013

Fine Tuning in the Scale Invariant NMSSM - Lockhart Room (ground floor) (09:00-09:45)

- Presenters: MEDINA, Anibal

Dark Matter and Particle Physics - Lockhart Room (ground floor) (09:45-10:30)

- Presenters: BELL, Nicole

Neutrino Physics and the LHC - Lockhart Room (ground floor) (11:00-11:45)

- Presenters: VOLKAS, Raymond

Higgs Physics and Naturalness - Lockhart Room (ground floor) (11:45-12:30)

- Presenters: KOBAKHIDZE, Archil

The Roadmap to the Higgs at the LHC - Lockhart Room (ground floor) (14:00-15:30)

- Presenters: JENNI, Peter

Event Generators Workshop - Lockhart Room (ground floor) (16:00-17:30)

- Presenters: BALAZS, Csaba; Dr. WHITE, Martin

Workshop Dinner (18:30-22:00)

Wednesday 10 July 2013

Theory Constraints on New Physics - Lockhart Room (ground floor) (09:00-09:45)

- Presenters: BALAZS, Csaba

The Future of the High Energy Frontier and the European Strategy - Lockhart Room (ground floor) (09:45-10:30)

- Presenters: JENNI, Peter

Searches for New Physics with Di-Leptons - Lockhart Room (ground floor) (11:00-11:30)

- Presenters: KRUSE, Mark

The Heavy Higgs Boson: from Standard Model to Beyond - Lockhart Room (ground floor) (11:30-12:00)

- Presenters: DIGLIO, Sara

Heavy Flavour Physics - Lockhart Room (ground floor) (12:00-12:30)

- Presenters: YABSLEY, Bruce

Higgs to WW in ATLAS - Lockhart Room (ground floor) (16:00-16:30)

- Presenters: KOENEKE, Karsten

Research in Cambridge HEP - Lockhart Room (ground floor) (16:30-17:00)

- Presenters: BARLOW, Nick

Using NeCTAR Resources - Lockhart Room (ground floor) (17:00-17:30)

- Presenters: Dr. LIMOSANI, Antonio; SEVIOR, Martin

Posters - Jardines Room (Level 1) (17:30-19:00)

Thursday 11 July 2013

Outlook for SUSY - Lockhart Room (ground floor) (09:00-09:45)

- Presenters: ELLIS, Jonathan R.

ATLAS Upgrade - Lockhart Room (ground floor) (09:45-10:30)

- Presenters: CLARK, Allan

An Introduction to GAMBIT - Lockhart Room (ground floor) (11:00-11:30)

- Presenters: SAAVEDRA, Aldo

Recent Models of Massive Neutrinos - Lockhart Room (ground floor) (11:30-12:00)

- Presenters: Dr. MCDONALD, Kristian

Displaced Vertices - Lockhart Room (ground floor) (12:00-12:30)

- Presenters: SONI, Nitesh

What Are We Missing in Elliptical Galaxies - Lockhart Room (ground floor) (16:00-16:30)

- Presenters: Prof. MOULD, Jeremy

MSSM Higgs in Light of LHC Higgs Discovery - Lockhart Room (ground floor) (16:30-17:00)

- Presenters: Dr. LI, Tong

Dark Matter Co-annihilation - Lockhart Room (ground floor) (17:00-17:30)

- Presenters: CAI, Yi

Friday 12 July 2013

What is Theory Driving Experiments To Do? - Lockhart Room (ground floor) (09:00-09:45)

- Presenters: VOLKAS, Raymond; Prof. WILLIAMS, Anthony

Possible Evolution of the CoEPP Experimental Program - Lockhart Room (ground floor) (09:45-10:30)

- Presenters: TAYLOR, Geoffrey Norman

Our Centre: What is working and what could be done better - Lockhart Room (ground floor) (11:00-11:45)

- Presenters: Prof. MOULD, Jeremy

Outlook and Future - Lockhart Room (ground floor) (11:45-12:00)

- Presenters: TAYLOR, Geoffrey Norman

Joint IAC, Board and Executive Meeting - Jardines Room (Level 1) (12:00-13:00)

Advisory Board Meeting - Jardines Room (Level 1) (13:00-13:30)