

CoEPP Annual Workshop 2015

Wednesday 18 February 2015 - Friday 20 February 2015

The Best Western Hotel, Hobart

Programme

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Wednesday 18 February 2015

Arrival tea/coffee - Wellington Room (08:30-09:00)

Higgs experiment - Goulburn Room (09:00-10:30)

time	title	presenter
09:00	ttH (Run-1, Run-2)	ZANZI, Daniele
09:30	H -> tau tau (Results, Run-2, CP)	DAWE, Noel
10:00	Vector boson scattering and quartic gauge couplings	TAYLOR, Pierre Thor Elliot
10:15	Event shapes	SPILLER, Laurence Anthony

Morning tea - Wellington/Goulburn Rooms (10:30-11:00)

Higgs theory - Goulburn Room (11:00-12:30)

time	title	presenter
11:00	Discovery potential of charged Higgs in decay channel $H^+ \rightarrow W^+ h$ in single production with a top quark at the LHC	Dr. SHARMA, Pankaj
11:30	Composite GUTs at present and future colliders	BARNARD, James
12:00	Higgs Vacuum Stability in a Mass-Dependent Renormalisation Scheme and Implications for Inflation	Mr. SPENCER-SMITH, Alexander
12:15	Probing CP-violating top-Higgs coupling through enhanced $t\bar{t}j$ signal and top polarisation at the LHC	Mr. YUE, Jason Tsz Shing

Lunch - Embers Restaurant (12:30-13:30)

Flavor physics - Goulburn Room (13:30-15:00)

time	title	presenter
13:30	Why we should study B-meson leptonic decays at Belle II	VARVELL, Kevin
14:00	B physics and hidden flavour studies at the LHC	Dr. YABSLEY, Bruce
14:30	Belle physics	ERMAKOV, Alexander
14:45	Global fits with CKMFitter	PESANTEZ, Luis

Afternoon tea - Wellington/Goulburn Rooms (15:00-15:30)

Future facilities (15:30-17:00)

time	title	presenter
15:30	FTK and iTK	KUBOTA, Takashi
16:00	Status of Belle II	LI, Chunhua
16:30	SVD construction	Mr. WILLIAMS, Scott
16:45	High Luminosity Upgrades to the ATLAS Si-Strip Tracker Readout	JACKSON, Paul Douglas

Break - Wellington/Goulburn Rooms (17:00-17:15)

Update on research computing - Goulburn Room (17:15-17:30)

- Presenters: BOLAND, Lucien Philip

3-minute thesis talks - Goulburn Room (17:30-17:45)

- Presenters: Mr. CALLEN, Benjamin; SHANAHAN, Phiala; SPENCER-SMITH, Alexander; Mr. WHITE, Graham

Poster Session and Reception - Wellington/Goulburn Rooms (17:45-18:45)

Thursday 19 February 2015

Arrival tea/coffee - Wellington Room (08:30-09:00)

New physics experiment (09:00-10:45)

time	title	presenter
09:00	0-Lepton recursive jigsaw analysis prospects and triggers	LEE JR, Lawrence
09:30	The Stawell DM Laboratory	VOLPI, Matteo
10:00	Recent results in top quark physics at ATLAS	FINELLI, Kevin
10:30	Tracking in Run-2	MILESI, Marco

Morning tea - Wellington/Goulburn Rooms (10:45-11:15)

New physics theory - Goulburn Room (11:15-12:30)

time	title	presenter
11:15	Naturalness and supersymmetry - Is SUSY dead?	BALAZS, Csaba
11:45	Cosmological constant in SUGRA models with Planck scale SUSY breaking and degenerate vacua	Dr. NEVZOROV, Roman
12:15	The role of CP violating scatterings in baryogenesis	BALDES, Iason

Lunch - Embers Restaurant (12:30-13:30)

Particle astrophysics 1 - Goulburn Room (13:30-15:00)

time	title	presenter
13:30	Detecting dipolar dark matter in beam dump experiments	RAO, Soumya
14:00	Dark matters: A UV complete picture of asymmetric dark matter and coannihilations	Mr. MILLAR, Alexander
14:15	Dark matter searches	BRENNAN, Amelia Jean
14:30	Unified dark matter through asymmetric symmetry breaking	Mr. LONSDALE, Stephen
14:45	Generating Luminous and Dark Matter During Inflation	BARRIE, Neil

Afternoon tea - Wellington/Goulburn Rooms (15:00-15:30)

Particle astrophysics 2 - Goulburn Room (15:30-17:15)

time	title	presenter
15:30	Brian Schmidt - TBA	
16:15	Hunting for features in the primordial power spectrum using Planck data	HAMANN, Jan
16:45	Large-scale structure with analytical methods	WONG, Yvonne

Dinner at MONA (18:45-22:30)

Friday 20 February 2015

Arrival tea/coffee - Wellington Room (08:30-09:00)

Future of CoEPP and HEP in Australia - Goulburn Room (09:00-10:30)

time	title	presenter
09:00	Brian Yates - Insights on the CoEPP mid-term review and the next round of Centre applications	
09:30	Jeremy Mould - TBA	
10:00	FTK Phase-II R&D/On FTK state-of-the-art	STABILE, Alberto

Morning tea - Wellington/Goulburn Rooms (10:30-11:00)

CoEPP activities and international connections - Goulburn Room (11:00-12:30)

time	title	presenter
11:00	Cambridge activities in CoEPP and ATLAS	KHOO, Teng Jian
11:30	CoEPP as seen by a Partner Investigator	CLARK, Allan
12:00	Summary of CoEPP activities	TAYLOR, Geoffrey

Joint Board and Executive Meeting (12:30-14:30)

Working lunch

Lunch - boxed lunches available - Embers Restaurant (12:30-13:30)