



CAASTRO
ALL-SKY ASTROPHYSICS



CoEPP
ARC Centre of Excellence for
Particle Physics at the Terascale

CoEPP & CAASTRO Workshop

Hercus Theatre, University of Melbourne – Thursday 28 February 2013

Time	ITEM	Person	Time
9:20am	Welcome	Brian Schmidt (ANU) Archil Kobakhidze (USYD)	10 mins
9:30am	Session 1: Insights into Dark Matter 30 minute presentation and 20 minutes discussion Chair: Brian Schmidt	Katie Mack (UMEL)	50 mins
10:20am	Morning Tea		30 mins
10:50am	Session 2: Dark Matter Candidates from particle physics: theory 30 minute presentation and 20 minutes discussion Chair: Csaba Balazs	Ray Volkas (UMEL)	50 mins
11:40am	Session 3: Review of particles searches for Dark Matter 30 minute presentation and 20 minutes discussion Chair: Paul Jackson	Elisabetta Barberio (UMEL)	50 mins
12:30pm	LUNCH - Laby IDEAS Centre		70 mins
1:40pm	Session 4: Review of Neutrino Physics 30 minute presentation and 20 minutes discussion Chair: Tony Gherghetta	Nicole Bell (UMEL)	50 mins
2:30pm	Session 5: Particle, Neutrino and Gamma-Ray Astrophysics 30 minute presentation and 20 minutes discussion Chair: Chris Blake	Signe Riemer-Sorenson (UQ) Gavin Rowell (U Adelaide)	50 mins
3:20pm	Afternoon Tea		30 mins
3:50pm	Session 6: Inflation and the Primordial Dark Ages 30 minute presentation and 20 minutes discussion Chair: Archil Kobakhidze	Richard Easther (U Auckland)	50 mins
4:40pm	Session 7: Discerning Dark Matter and Gravity 30 minute presentation and 20 minutes discussion Chair: Stuart Wyithe	Tamara Davis (UQ) David Parkinson (UQ)	50 mins
5:30pm	Summary and next steps	Brian Schmidt (ANU) Archil Kobakhidze (USYD)	30 mins
18:00pm	Close for Day		

Optional Day 2 – Agenda
Hercus Theatre, University of Melbourne – Friday 1 March 2013

Time	ITEM	Person	Time
9:25am	Welcome	Archil Kobakhidze (USYD)	5 mins
9:30am	Session 1: TBA 20 minute presentation and 10 minutes discussion Chair: Yi Cai	Robert Foot (UMEL)	30 mins
10:00am	Session 2: How to detect dark matter using cosmic rays? 20 minute presentation and 10 minutes discussion Chair: Yi Cai	Csaba Balazs (MONASH)	30 mins
10:30am	Morning Session Break		30 mins
11:00am	Session 3: Searching for long-lived particles at the LHC 20 minute presentation and 10 minutes discussion Chair: Sara Diglio	Aldo Saavedra (USYD)	30 mins
11:30am	Session 4: Searching for Dark Matter at the LHC 20 minute presentation and 10 minutes discussion Chair: Sara Diglio	Amelia Brennan (UMEL)	30 mins
12:00pm	Lunch Session Break		120 mins

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2:00pm	Session 5: Measuring expansion with cosmic rulers 20 minute presentation and 10 minutes discussion Chair: James Barnard	Eyal Kazin (SWIN)	30 mins
2:30pm	Session 6: Cosmological Consequences of Higgs Vacuum Stability 20 minute presentation and 10 minutes discussion Chair: James Barnard	Alex Spencer-Smith (USYD)	30 mins
3:00pm	Afternoon Session Break		30 mins
3:30pm	Session 7: Search for neutrino mass generation mechanism with ATLAS equipment 20 minute presentation and 10 minutes discussion Chair: Anibal Medina	Kenji Hamano (UMEL)	30 mins
4:00pm	Session 8: Unorthodox thoughts about dark energy 20 minute presentation and 10 minutes discussion Chair: Anibal Medina	Archil Kobakhidze (USYD)	30 mins
4:30pm	Summary and next steps	Archil Kobakhidze (USYD)	10 mins
4:40pm	Close for Day		