

PHILOSOPHY OF DARK ENERGY WORKSHOP

March 8 – 10, 2019

University of California, Irvine

Social & Behavioral Sciences Gateway, SBSG 1321

Friday, March 8

8:30 a.m. - Breakfast

8:50 a.m. - Opening remarks

9:00 - 10:00 a.m. - Luca Amendola (Heidelberg), *"The ever-changing dark energy"*

10:00 – 11:00 a.m. - Jim Peebles (Princeton), *"Finding LambdaCDM"*

11:00 – 11:15 a.m. - Coffee Break

11:15 – 12:15 p.m. - Sean Carroll (Caltech), *"Holography, Hilbert Space, and the Cosmological Constant"*

12:15 – 1:30 p.m. - Lunch / coffee

1:30 – 2:30 p.m. - Paul Hamilton (UCLA), *"Searches for new forces with atom interferometry"*

2:30 – 3:50 p.m. - Panel: Thomas Ryckman (Stanford), Chris Smeenk (UWO), David Wallace (USC)

3:50 – 4:00 p.m. - Coffee Break

4:00 – 6:00 p.m. - LPS Colloquium: Katherine Brading (Duke) / Optional: Outing to Laguna Beach

7:00 p.m. - Dinner (by invitation)

Saturday, March 9

8:30a.m. - Breakfast

9:00 – 10:00 a.m. - Dragan Huterer (Michigan), *"Dark Energy Two Decades After: Cosmological Probes and Consistency Tests"*

10:00 – 11:00 a.m. - Lavinia Heisenberg (Zurich), *"The landscape of effective field theories of gravity and their consistency"*

11:00 – 11:15 a.m. - Coffee Break

11:15 – 12:15 p.m. - Anne-Christine Davis (Cambridge), *"Recent developments in Modified Gravity and Chameleons"*

12:15 – 1:45 p.m. - Lunch

1:45 – 3:00 p.m. - General Discussion: Mike Schneider (UCI / Notre Dame, moderator)

3:00 – 3:15 p.m. - Coffee Break

3:15 – 4:15 p.m. - Robert Caldwell (Dartmouth), *“Dark Energy Needs Dark Radiation”*

4:15 – 5:15 p.m. - Daniela Saadeh (Nottingham), *“Dark energy: can the fifth force be screened?”*

Sunday, March 10

8:30 a.m. - Breakfast

9:00 – 10:00 a.m. - Robert Brandenberger (McGill), *“Dynamical Relaxation of the Cosmological Constant and Dark Energy”*

10:00 – 11:00 a.m. - Shinji Tsujikawa (Tokyo), *“Dark energy in scalar-tensor versus vector-tensor theories”*


11:00 – 11:15 a.m. - Coffee Break

11:15 – 1:00 a.m. - General discussion

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