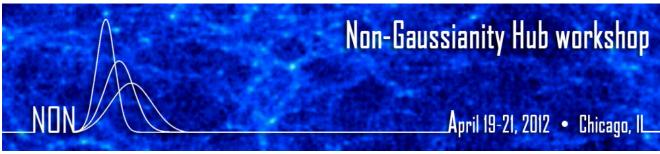
Non-Gaussianity Hub

KICP workshop Chicago, IL



http://kicp-workshops.uchicago.edu/NonGaussian2012/

WORKSHOP MATERIALS





The Kavli Institute for Cosmological Physics (KICP) at the University of Chicago will host Non-Gaussianity Hub workshop on April 19-21, 2012. We plan to bring together theorists and data analysts in this 3-day workshop on non-Gaussianity to consolidate the recent progress and discuss future efforts. We expect attendance by about 30 worldwide leaders in the field of non-Gaussianity.

Organizing Committee

Peter AdsheadScott DodelsonKavli Institute for Cosmological PhysicsKICP/Fermilab

Dragan Huterer University of Michigan

List of Participants

Peter Adshead Kavli Institute for Cosmological Physics

2. Adam Becker University of Michigan

3. Matthew Becker Kavli Institute for Cosmological Physics

4. Laura Book Caltech

5. David Burke Stanford University

6. Thomas Crawford Kavli Institute for Cosmological Physics

Martin Crocce
 Carlos Cunha
 Neal Dalal
 Scott Dodelson
 Olivier Dore
 IEEC Barcelona
 Stanford University
 University of Illinois
 KICP/Fermilab
 JPL/Caltech

12. Cora Dvorkin IAS

13. Tim Eifler Ohio State University14. Wenjuan Fang University of Michigan

15. Joshua Frieman Kavli Institute for Cosmological Physics

16. Juan Garcia-Bellido Universidad Autonoma Madrid

17. Enrique Gaztanaga IEEC Barcelona

18. Tommaso Giannantonio LMU University Munich

19. Wayne Hu Kavli Institute for Cosmological Physics

20. Dragan Huterer University of Michigan21. Donghui Jeong Johns Hopkins University

22. Elisabeth Krause Caltech

23. Andrey Kravtsov Kavli Institute for Cosmological Physics

24. Marilena LoVerde IAS

25. Michael Mortonson Ohio State University

26. Sohyun Park
 27. Youngsoo Park
 Fermi National Accelerator Laboratory
 Kavli Institute for Cosmological Physics

28. Will Percival Portsmouth University29. Ashley Ross Portsmouth University

30. Roman Scoccimarro NYU

31. Sarah Shandera Penn State University

32. Michael Turner Kavli Institute for Cosmological Physics

33. Risa Wechsler
34. Heidi Wu
35. Mark Wyman
University of Michigan
University of Chicago

Workshop Program

April 19-21, 2012 @ LASR conference room

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	MORNING SESSION	
9:30 AM - 9:40 AM	Dragan Huterer , University of Michigan Welcome: goals and topics for the meeting	
9:40 AM - 10:10 AM	RISA WECHSLER, MATTHEW BECKER AND MARTIN CROCCE A few words about the simulations	
10:10 AM - 12:30 PM	PRESENT RESULTS FROM ANALYSIS OF SIMS	
12:30 PM - 2:00 PM	LUNCH	
	AFTERNOON SESSION	
2:00 PM - 2:30 PM	Marilena LoVerde, IAS Overview of NG models	
2:30 PM - 4:30 PM	BREAKOUT SESSIONS: ~ 3 GROUPS WORK ON ANALYSIS	
4:30 PM - 5:30 PM	DISCUSSION OF SYSTEMATICS	
6:00 PM	DINNER Cedars Mediterranean Kitchen	

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An	rıl	20,	20	17.

	MORNING SESSION
9:30 AM - 9:50 AM	Carlos Cunha, Stanford University Systematics: photo-z and spec-z
9:50 AM - 10:10 AM	Ashley Ross, Portsmouth University Systematics: experience from BOSS
10:10 AM - 12:00 PM	BREAKOUT SESSIONS: WORK ON INCORPORATING SYSTEMATICS
12:00 PM - 1:00 PM	Will Percival, Portsmouth University First results from galaxy clustering in the BOSS survey
1:00 PM - 2:00 PM	LUNCH
	AFTERNOON SESSION
2:00 PM - 3:00 PM	BREAKOUT SESSIONS: WORK ON INCORPORATING SYSTEMATICS
3:00 PM - 3:30 PM	Peter Adshead , Kavli Institute for Cosmological Physics Aspects of NG effect on the LSS
3:30 PM - 5:00 PM	BREAKOUT SESSIONS: ~ 3 GROUPS WORK ON ANALYSIS
5:00 PM - 5:30 PM	DISCUSSION

April 21, 2012

MORNING SESSION

9:30 AM - 10:00 AM **Tommaso Giannantonio**, LMU University Munich

Constraining NG with current LSS and ISW data and outlook for the DES

10:00 AM - 10:30 AM Roman Scoccimarro, NYU

Bias, Gaussian and non-Gaussian, local and non-local

10:30 AM DISCUSSION OF FUTURE WORK: THEORY + ANALYSIS, LSS+CMB

Simulations to Disscuss

Come to the workshop with your constraint on f_NL not worrying about systematics or uncertainties in the other cosmological parameters and work on the analysis of simulations:

- * How would the systematics enter?
- * What about inflationary input?
- * Model -> observables?

Simulation 1

Acknowledgments: Thanks to Michael Busha, Matt Becker, Brandon Erickson, Andrey Kravtsov, Gus Evrard, Risa Wechsler and others who made this possible.

DATA: http://logrus.uchicago.edu/~beckermr/nongauss/

Simulation 2

Acknowledgments: Thanks to Martin Crocce, Francisco Castander, Pablo Fosalba, Enrique Gaztanaga, and the MICE team.

DATA: http://segre.ieec.uab.es/crocce/DES/PNGworkshop/

Workshop Talks

 Peter Adshead, Kavli Institute for Cosmological Physics Aspects of NG effect on the LSS

April 20, 2012 (3:00 PM - 3:30 PM)

2. Carlos Cunha, Stanford University Systematics: photo-z and spec-z

April 20, 2012 (9:30 AM - 9:50 AM)

3. Tommaso Giannantonio, LMU University Munich
Constraining NG with current LSS and ISW data and outlook for the DES

April 21, 2012 (9:30 AM - 10:00 AM)

4. **Dragan Huterer**, University of Michigan Welcome: goals and topics for the meeting

April 19, 2012 (9:30 AM - 9:40 AM)

5. Marilena LoVerde, IAS Overview of NG models

April 19, 2012 (2:00 PM - 2:30 PM)

6. Will Percival, Portsmouth University
First results from galaxy clustering in the BOSS survey

April 20, 2012 (12:00 PM - 1:00 PM)

7. **Ashley Ross**, Portsmouth University *Systematics: experience from BOSS*

April 20, 2012 (9:50 AM - 10:10 AM)

8. Roman Scoccimarro, NYU Bias, Gaussian and non-Gaussian, local and non-local

April 21, 2012 (10:00 AM - 10:30 AM)