

# Newtonian constant of gravitation workshop at NIST

**THURSDAY, October 9, 2014 Building 101, Lecture Room B**

8:00-9:00	REGISTRATION and CONTENENTAL BREAKFAST
9:00-9:10	Welcome
9:10-9:35	David Newell (NIST): CODATA and Fitting Big $G$
9:35-10:00	Carl Williams (NIST): Setting the Stage: Is a Big $G$ Consortium the Right Way?
10:00-10:10	John Gillaspay (NSF): Big $G$ and NSF
10:10-10:45	Terry Quinn (BIPM): General Remarks on Measuring $G$
10:45-11:15	COFFEE BREAK
11:15-11:50	Riley Newman (UC Irvine): $G$ Measurements with a Cryogenic Torsion Pendulum, and Thoughts about Future $G$ Measurement Instruments
11:50-12:25	Jun Luo (HUST): Recent Progress in Determining Gravitational Constant $G$ in HUST
12:30-1:30	LUNCH
1:30-2:05	Andrea De Marchi (Politecnico di Torino): The Dual Free Swinging Simple Pendulum Approach for Big $G$ Determination
2:05-2:40	Mark Kasevich (Stanford): Past, Present, and Future Work
2:40-3:15	Le Luo (Indiana Univ-Purdue Univ Indianapolis): Hybrid Atom-Light Interferometer and its Potential Application in Precision Measurements of Newton's Constant
3:15-3:45	COFFEE BREAK
3:45-5:00	Panel Discussion: Peter Mohr (NIST, Moderator), Kazuaki Kuroda (ICRR, Univ Tokyo), William Phillips (NIST, Univ MD), Ian Robinson (NPL)

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## FRIDAY, October 10, 2014 Building 101, Lecture Room B

8:00-9:00	CONTENENTAL BREAKFAST
9:00-9:30	Charlie Hagedorn (Univ Washington/CENPA): Replicable Analysis and Blind Review
9:30-10:00	Terry Quinn (BIPM): The BIPM G Apparatus – a New Proposal
10:00-10:30	Stephan Schlamminger (NIST): A Torsion Balance Experiment with Magnetic Feedback
10:30-11:00	COFFEE BREAK
11:00-12:00	Discussion
12:00-1:00	LUNCH
1:00-1:35	Markus Aspelmeyer (VCQ, Univ Vienna): Measuring Gravity Between Sub-mm Source Masses
1:35-2:10	Christian Rothleitner (PTB): Three-test-mass Gravimeter Measurement
2:10-2:40	COFFEE BREAK
2:40-5:00	LABORATORY TOURS