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The Hubble Constant Controversy: Status, Implications and Solutions

WE-Heraeus-Symposium
#hubblecontroversy

November 10, 2018
Auditorium Friedrichstrasse, Berlin/Germany
Scientific Organizers

- **Prof. Dr. Matthias Steinmetz**
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Administrative Organization

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**08:00**
REGISTRATION, WELCOME COFFEE

**09:00**
- Matthias Steinmetz
  Welcome and introduction
- Lynette Wood, Australian Ambassador to Germany
  Welcome address
- Stefan Jorda, WE-Heraeus-Stiftung
  Welcome address

**09:15**
- Wendy Freedman, U Chicago
  Cosmological controversy: Resolving the tension in the Hubble constant
- Rachael Beaton, U Princeton
  The (very) local distance scale and the Hubble constant

**10:15**
- Adam Riess, JHU Baltimore
  A new measurement of the local value of the Hubble constant, hints of new physics?

**10:45**
COFFEE BREAK

**11:15**
- Stefan Jordan, U Heidelberg
  The Gaia reference frame
- Tamara Davis, U Queensland
  Candles, rulers, and redshifts: A theoretical look at H₀

**11:45**
- Rachel Webster, U Melbourne
  Impact of gravitational lensing on H₀ measurements

**12:15**
LUNCH BREAK

**13:45**
- Sherry Suyu, MPA & TU Munich
  H₀LiCOW: Measurement of H₀ from lensing
- Matthew Colless, ANU Canberra
  H₀ from large-scale structure surveys

**14:15**
- Antony Lewis, U Sussex
  H₀ from CMB and Planck
- Bernhard Schutz, U Cardiff & AEI Potsdam
  H₀ from gravitational waves

**14:45**
COFFEE BREAK

**16:15**
- Priyamvada Natarajan, Yale U
  Mirroring the H₀ controversy? Tension between inferences about dark matter in the near & far universe
- Avi Loeb, Harvard U
  Cosmological implications of the H₀ controversy
- Lisa Randall, Harvard U
  Potential BSM implications of the H₀ controversy
- Brian Schmidt, ANU Canberra
  Discussion „Do we have an H₀ crisis?“

**18:30 – 20:00**
NETWORKING RECEPTION by invitation of the Australian Embassy Berlin