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# Welcome to the L-V Meeting

## Status of the LSC

Dave Reitze  
University of Florida



# Some Housekeeping Issues and Announcements

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- If you have not registered, badges and folders can be picked up outside the Kirsch auditorium
- Please upload your talks ahead of time
  - » <http://www.lsc-group.phys.uwm.edu/ligovirgo/meetings/LSCVirgo0707>
    - Need an account; only ppt or pdf files, please
- L-V banquet will take place tonight at 7 pm
  - » Morss Hall, 142 Memorial Drive, Bldg 50
- LASTI Tours
  - » 17:15 Tuesday, Rich Mittleman is organizing, meet outside the Kirsch auditorium
- 2007 Workshop on Charging Issues in Experimental Gravity
  - » After this meeting, [Building NW-17](#), room 218



# Agenda of the LSC Council Meeting

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- LSC Council Meeting will take place at the Hotel@MIT at 6 pm on Wednesday evening
  - » Working dinner, Luscomb Ballroom
- Agenda
  - » Consideration of New Member Applications
    - And new senior members to existing groups
  - » Publication Policy Revisions
    - Brief presentation by P&P committee followed by discussion
  - » Proposal for modifying how the LSC elects the Spokesperson
    - Jay Marx will discuss

# Status of the LSC

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- We are coming into the home stretch of S5!
  - » The LSC, the LIGO Lab, and most importantly the commissioners and staff of the observatories deserve our gratitude.
- Advanced LIGO is very close to becoming a funded project!
  - » Thanks to your efforts, the LSC letter writing campaign was a success
- AstroWatch program development
  - » Discussions taking place among the worldwide gravitational wave detector projects to develop plans for a post S5/VSR1 Astrowatch program
    - All GW detectors will have some capability during the E-LIGO/Virgo+ upgrade
  - » Joint Run Planning Committee and Data Analysis Council are formulating plans
- LSC interactions with the numerical relativity community
  - » Motivated by spectacular recent advances in NR wave form development
  - » Technical standards document under development; soon to be circulated to NR community

# Status of the LSC (cont'd)

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- **LSC committee additions and changes**
  - » Laura Cadonati (U. Mass) elected as at-large member of the Executive Committee
  - » Duncan Brown (Syracuse) appointed to the Computing Committee
  - » Complete committee listings posted on [ligo.org](http://ligo.org)
- **Annual MOU Reporting**
  - » New secure web-based interface: <https://mou.ligo.caltech.edu>
    - Accepts TeX, html input or pdf file uploading
  - » MOU review to be held August 16,17 at MIT
  - » PIs have received instructions
  - » Please submit them in a timely manner!
- **LSC Directory Services**
  - » Maintain LSC group membership information, LSC e-mail lists
  - » Managed by group PIs

# Some noteworthy items

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- Stochastic S4 upper limit featured in Nature “News and Views”

NATURE|Vol 447|7 June 2007

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## ASTROPHYSICS

# Gravitational waves constrained

Michele Maggiore

Cosmic gravitational waves could provide unprecedented information on the early Universe. The effects that are of interest are small, but experiments are gradually achieving a sensitivity that will test cosmological models.

- AAS meeting in January 2007 will feature a session “Ground-Based Gravitational Wave Astronomy”
  - » 5 talks: current detectors, future detectors, Crab spin down, S4 stochastic  $\Omega_{\text{GW}}$ , GRB070201

# Analyses Update

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- **Progress on recent papers**
  - » Accepted articles:
    - Stochastic LIGO-ALLEGRO (Phys. Rev. D.)
    - CW S3/S4 known pulsar (Phys. Rev. D.)
  - » Provisionally accepted articles
    - Stochastic S4 radiometer (Phys. Rev. D.)
    - Burst SGR Astrowatch (Phys. Rev. D.)
    - Burst S4 untriggered search (CQG)
  - » Articles on arXiv, in submission
    - CBC S3/S4 binary inspiral (for Phys. Rev. D.)
  
- **Draft of GRB070201 paper circulated to the collaboration**
  - » First fast-track analysis by the LSC; will hear more about this

# LSC R&D White Papers

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- **Drafts publicly posted on ligo.org – linked to:**
  - » [http://www.phys.ufl.edu/~reitze/LSC\\_DA\\_WP\\_2007.pdf](http://www.phys.ufl.edu/~reitze/LSC_DA_WP_2007.pdf)
  - » [http://www.phys.ufl.edu/~reitze/LSC\\_IS\\_WP\\_2007.pdf](http://www.phys.ufl.edu/~reitze/LSC_IS_WP_2007.pdf)
- **White papers developed within LSC (and L-V) working groups**
  - » 3-5 year horizon, intent is to update every year
  - » Divided into two separate documents
    - Data analysis, Detector Characterization, and Computing
      - including L-V analyses
    - Instrument Science
      - AdvLIGO (enhancements, outstanding issues) and future detector R&D
- **Motivation and intended audience**
  - » Guide for internal LSC planning – survey R&D efforts and identify emerging areas, R&D needs
  - » Guide for NSF – a white paper helps reviewers judge proposals based on needs of LSC ('intrinsic merit')
  - » Guide for existing and prospective LSC members
    - identifies places where R&D is needed
    - Define transition of grants as they evolve from Advanced LIGO to beyond Advanced LIGO





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Enjoy the meeting.