



WFIRST Preparatory Science Selected Teams PI Telecon

Neil Gehrels
NASA-GSFC
WFIRST Study Scientist

March 12, 2015

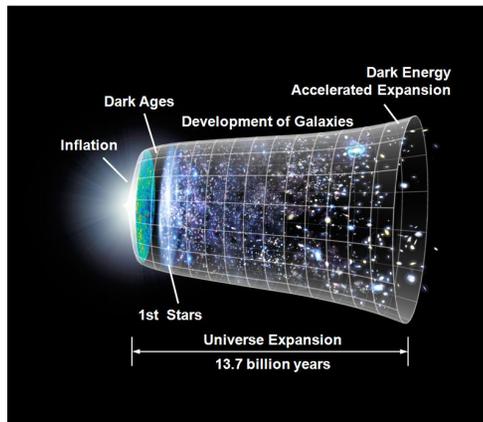


Discovery Science

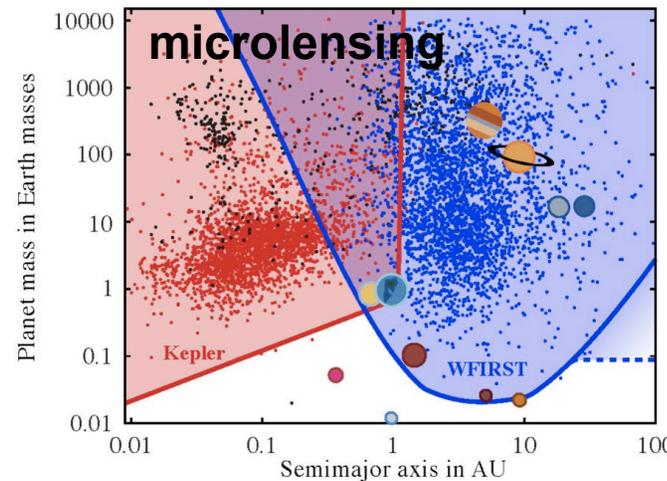


- Highest ranked large space mission in 2010 US Decadal Survey
- Use of 2.4m telescope enables
 - Hubble quality imaging over 100x more sky (surveys & monitoring)
 - Imaging of exoplanets with 10^{-9} contrast with a coronagraph

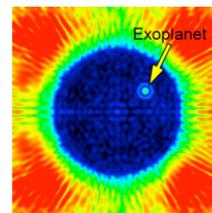
Dark Energy



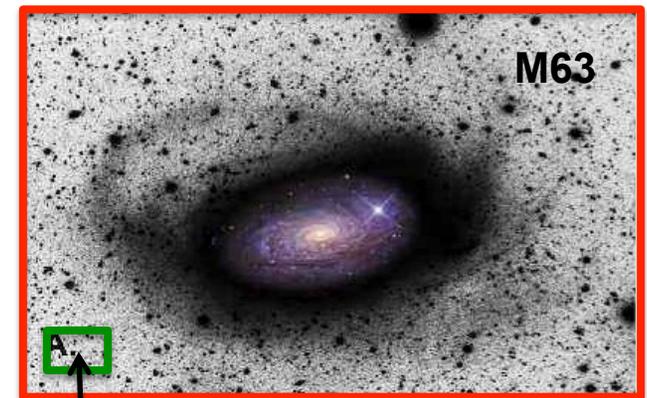
Exoplanets



cornagraph



Astrophysics



HST

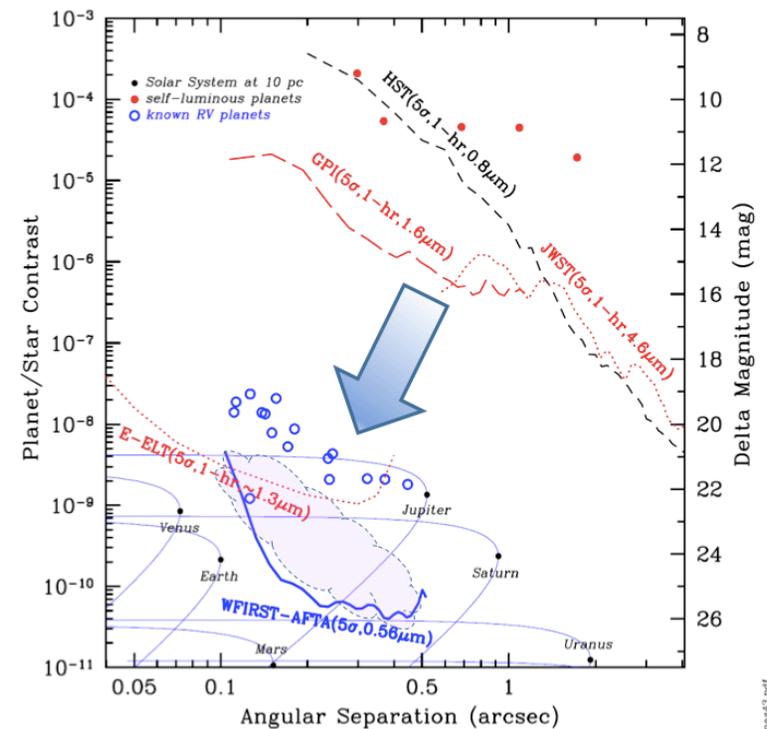
WFIRST



What's Happening with WFIRST



- Huge progress on WFIRST this year
- \$106M in FY14 & 15 has enable major steps forward
 - H4RG detector development
 - Coronagraph development
 - Design cycles
- SDT 2014 study completed
- ROSES community studies
- Pasadena conference held
- Special session at AAS
- ExoPAG, COPAG, PhysPAG
- **Exciting times for WFIRST**





WFIRST Team



SDT Co-Chairs

- David Spergel, Princeton University
- Neil Gehrels, NASA GSFC (Project Scientist)

SDT Members

- Charles Baltay, Yale University
- Dave Bennett, University of Notre Dame
- James Breckinridge, California Institute of Technology
- Megan Donahue, Michigan State University
- Alan Dressler, Carnegie Institution for Science
- Scott Gaudi, Ohio State University
- Tom Greene, NASA ARC
- Olivier Guyon, Steward Observatory
- Chris Hirata, Ohio State University
- Jason Kalirai, Space Telescope Science Institute
- Jeremy Kasdin, Princeton University
- Bruce Macintosh, Stanford University
- Warren Moos, Johns Hopkins University
- Saul Perlmutter, University of California Berkeley
- Marc Postman, Space Telescope Science Institute
- Bernie Rauscher, NASA GSFC

- Jason Rhodes, NASA JPL
- Yun Wang, IPAC/Cal Tech
- David Weinberg, Ohio State University

SDT Ex Officio

- Dominic Benford, NASA HQ (Program Scientist)
- Mike Hudson, Canadian Space Agency
- Woong-Seob Jeong, Korea Astronomy and Space Science Institute
- Yannick Mellier, European Space Agency
- Wes Traub, NASA JPL
- Toru Yamada, Japan Aerospace Exploration Agency

Management

- John Gagosian, Program Executive
- Kevin Grady, Project Manager
- Cathy Peddie, Deputy Project Manager
- Gary Blackwood, Exoplanet Program Manager



WPS Information



- Science contacts at HQ and Project
 - Dominic Benford, NASA HQ, Program Scientist
 - Neil Gehrels, GSFC, Project Scientist
 - Jeff Kruk, GSFC, Instrument Scientist
 - Wes Traub, JPL, JPL Project Scientist
 - Jason Rhodes, JPL, Deputy JPL Study Scientist
- Telecons and meetings
 - Kick-off telecon Mar 12 & 25, 2015
 - Mid-term telecon September 2015
 - Meeting with WFIRST Science Working Group Feb 2016



WPS Interactions



- Please send an e-mail within the next month with request for information you need to do your study.
- Quarterly e-mail exchanges expected with Project and HQ team on progress
- E-mail exploder wfirst-wpst@lists.nasa.gov
- Web site (same as SDT)
 - <http://wfirst.gsfc.nasa.gov/science/sdt/>
 - wfirstsdt 5dt2*L1