

# NANOGrAV 2016 Meeting Schedule

(Draft 2.5)

## Wednesday

*Dedicated to Timing, Instruments and Noise.*

Morning Sessions: Hameetman Auditorium, Cahill

Afternoon Sessions: Keck Center

### Session 0:

8:30 - 8:40 Welcome and Logistics (LOC, SOC); State of NANOGrav (Siemens)

### Session 1:

8:40 - 10:00 Timing

Chair: Michael Lam

8:40 - 8:50	Timing Group Update (Nice)
8:55 - 9:10	NANOGrav 11-year data set (Demorest)
9:15 - 9:25	High-Precision gamma-ray Timing via MCMC (Ransom)
9:30 - 9:40	Long-term pulse profile stability in NANOGrav MSPs (Brook)
9:45 - 9:55	New Update From Pint (Luo)

### Coffee Break

10:00 - 10:15

### Session 2:

10:15 - 11:40 Instrumentation & Noise

Chair: Megan Jones

10:15 - 10:30	The Murchison Widefield Array (Kaplan)
10:35 - 10:45	Low Frequency Observations of MSPs with the LWA (Stovall)
10:50 - 11:00	Pulsar Timing With the Deep Space Network (Majid)
11:05 - 11:15	Polarization Calibration of the Arecibo Dataset (Gentile)
11:20 - 11:30	Breakthrough Listen at the GBT (Croft)
11:30 - 11:40	How much ISM noise is present in our data? (Stinebring)

### Lunch

11:40 - 1:00

**Session 3:**

1:00 - 3:00 Break out Session # 1 (Keck Center)

1:00 - 2:00 Timing - Think Center (Keck Center)  
Astrophysics - Black Hole (Tolman-Bacher House)  
2:00 - 3:00 Timing - Think Center (Keck Center)  
Detection - Black Hole (Tolman-Bacher House)

**Coffee Break**

3:00 - 3:30

**Mental Health Seminar: the 100 hour work-week and other myths of success**

3:30 - 5:00

**Thursday**

*Dedicated to Gravitational Wave Sources, Modelling, and Outreach*

Morning Sessions: Hameetman Auditorium, Cahill

Afternoon Sessions: Keck Center

**Session 1:**

9:00 - 10:00 Gravitational Wave Sources and Modeling

Chair: Joe Simon

9:00 - 9:10 Constraining massive gravity with PTAs (Smith)  
9:15 - 9:25 Carrying the physics of black-hole binary evolution into gravitational-wave models for pulsar-timing arrays (Taylor)  
9:30 - 9:40 When do anisotropic searches 'win'? (Sampson)  
9:45 - 9:55 Measuring the Red Noise Model in the NANOGrav Nine-Year Data Set (Lam)

**Coffee Break**

10:00 - 10:15

**Session 2:**

10:15 - 11:35 Gravitational Wave Sources and Modeling, Outreach and Evaluations

Chair: Thankful Cromartie

10:15 - 10:25 Probing Galaxy Evolution Parameters with PTA Observations (Simon)  
10:30 - 11:00 MBH Mergers and GWs from the Illustris Cosmological Hydrodynamic Simulations (Kelley; invited talk)  
11:05 - 11:15 Update from the ARCC program (Jenet)  
11:15 - 11:20 The Pulsar Search Collaboratory (McLaughlin)

11:20 - 11:30 Talk on Evaluation findings (Martone)

### **Lunch**

11:30 - 12:45

### **Session 3:**

12:45 - 2:45 Break out Session # 2 (Keck Center)

12:45- 1:45	IMM/Noise budget - Think Tank (Keck Center)
	Outreach - Black Hole (Tolman-Bacher House)
1:45 - 2:45	Detection (protocols) - Think Tank (Keck Center)
	Cyber I - Black Hole (Tolman-Bacher House)

### **Coffee Break**

2:45 - 3:00

### **Diversity Session: Understanding Identity and Unconscious Bias**

Presentation by Erin-Kate Escobar of the Caltech Center for Diversity  
(Keck Center)

3:00-4:30

### **Fred Lo: Looking back on NANOGrav**

Andrea Lommen introduces Fred Lo  
(Keck Center)

4:30-5:00

### **6.30pm Conference Dinner**

Bar Celona, <http://www.barcelonapasadena.com> Old Town, Pasadena  
Informal honoring of Fred Lo

## **Friday**

*Dedicated to Gravitational Wave Detection, Protocols and International Collaboration*

Morning Sessions: Hameetman Auditorium, Cahill

Afternoon Sessions: Cahill meeting rooms

### **Session 0:**

8:30 - 8:45 Detection Working Group update (Ellis)

### **Session 1:**

8:50 - 10:25 Gravitational Wave Detection and Protocols

Chair: Kristina Islo

8:50 - 9:05     NANOGrav 9yr GWB anisotropy update (Mingarelli)  
9:10 - 9:25     NANOGrav 9yr continuous wave update (Ellis)  
9:30 - 9:45     Scaling Laws and Time to Detection for a Broken-Power-Law Stochastic  
                    Background (Vigeland)  
9:50 - 10:05    Towards solving the pulsar timing sampling problem (van Haasteren)  
10:10-10:25    The Bridge: New Features (Lommen)

**Depart for Sarah Burke-Spolaor's LIGO talk or Additional WG time**

10:30am        Hilton Hotel  
11:00am        Sarah's talk  
11:30am        Depart for Caltech

**Session 2: LIGO detection talk with pizza lunch (Jonah Kanner)**

12:15 - 1:15    Hameetman Auditorium, Cahill

**Session 3: BWM Discussion**

1:15 - 2:00, Chair: Dusty Madison and Justin Ellis

**Coffee Break:**

2:00 - 2:30 pm

**Session 4: The IPTA and NANOGrav**

2:30 - 3:30 pm Chair: Maura McLaughlin

**Session 5: Future Direction of NANOGrav -- thoughts on comments from Fred Lo**

3:45 - 4:45 pm    Chair: Xavi Siemens, Andrea Lommen; Hameetman Auditorium

**Closing Remarks**

4:45 - 5:00pm