

## Wednesday MAY 12

8 am: Registration

- 830 am: Welcome Remarks (P. Drell, SLAC)
- 840 am: Keynote address (Neil Tyson, Hayden Planetarium/Princeton)
- 920: The Beyond Einstein Program (Paul Hertz, NASA Hq.)

### *DAY I: THE BIG BANG*

- 10 am: Overview (Paul Steinhardt, Princeton)
- \*\* 1040 am: Strings, gravity beyond Einstein (Shamit Kachru, Stanford)

### **1120: coffee break**

- 1150 am: CMB Polarization and Cosmology (W. Hu, Chicago)
- \*\* 1230 pm: WMAP (C. Bennett, Goddard)

### **110 pm: Lunch break**

230 pm: Can We Observe Planck/string Scale Physics via the CMB? (R. Easther, Yale)  
245 pm: Planck (J.-L. Puget, IAS)

### **325 pm: Afternoon break**

### *Big-Bang Einstein Probes*

4 pm: Einstein Polarization Interferometer for Cosmology (P. Timbie, Wisconsin)  
430 pm: Experimental Probe for Inflationary Cosmology (J. Bock, Caltech)  
5 pm: How can CMB Constrain Inflation Models? Particle Theorist's View (K. Kadota, UC Berkeley)  
530 pm: EIP (G. Hinshaw, NASA Goddard)  
6 pm: POLARBEAR: A Pathfinder for CMBPOL (A Lee, UC Berkeley/LBNL)

### **630 pm End**

Reception: 630 pm

## Thursday MAY 13

8 am: International Beyond Einstein: Japan (T Takahashi, ISAS)

### *DAY II: DARK ENERGY*

- 830 am: Particle dark matter (M. Kamionkowski, Caltech)
- 910 am: The new physics of dark matter and dark energy (J. Lykken, FNAL)
- 950 am: N-Body Simulations and Gravitational Lensing with Dark Energy (C Baccigalupi, SISSA/ISAS)

### **1020 am: Coffee break**

- 11 am: Dark energy overview (R. Bean, Princeton)
- 1140 am: Weak lensing and cluster counting (A. Refregier, CEA/Saclay)
- 1220 pm: SZ (A. Miller, Columbia)

### **1 pm : Lunch**

- 230 pm: Supernovae (W. Freedman, Carnegie)
- 310 pm: Complementary Probes of Dark Energy (E Linder, LBNL)

### **325 pm: Afternoon break**

#### *Dark Energy Einstein Probes*

- 4 pm: SNAP (S. Perlmutter, LBNL)
- 430 pm: Destiny (T. Lauer, NOAO)

#### *Other Space Opportunities*

- \*\* 5 pm: Searching for Strong Gravitational Lenses with SNAP (P Marshall, KIPAC/Stanford)
- \*\*515: DUO (R. Griffiths, Carnegie Mellon)
- \*\*530: The Swift MIDEX Mission (N Gehrels, NASA Goddard)

### **End 6 pm**

Dinner 6 30 pm

### **Friday MAY 14**

8 am: International Beyond Einstein: Europe (Alvaro Gimenez, ESA)

#### *DAY III: BLACK HOLES*

- 830 am : Overview and innerview of black holes (K. Thorne, Caltech)
- 910: Black hole astrophysics (C. Reynolds, University of Maryland)
- 950: The saga of Sag A\* (F. Melia, University of Arizona)

\*\*1030 am: Gravitational Wave Astronomy from LIGO to LISA (S. Finn, Penn State University)

**1110 am: coffee break**

- 1150: LISA (T. Prince, Caltech)

**1230: Lunch**

- 210 pm: GLAST (P. Michelson, Stanford)
- \*\* 250 pm: Constellation-X (N. White, NASA Goddard)

**330 pm : Afternoon break**

*Black Hole Einstein Probes*

- 4 pm: EXIST (J. Grindlay, Harvard, CFA)
- 430 pm: CASTER (M. McConnell, University of New Hampshire)

*Other Space Opportunities*

- 5 pm: : NuSTAR (F. Harrison, Caltech)
- 515 pm: AGN Evolution- the X-ray Revolution (R. Mushotzky, NASA Goddard)
- 530 pm: MAXIM: The Black Hole Imager (W. Cash, University of Colorado)
- 545 pm: Closing Remarks (Roger Blandford, KIPAC Director, Stanford University)

Special Evening Lecture, 8 pm

To register, [http://www-conf.slac.stanford.edu/einstein/reg/kip\\_reg.asp](http://www-conf.slac.stanford.edu/einstein/reg/kip_reg.asp)

Kip Thorne: Probing Black Holes and the Birth of the Universe with Gravitational Waves. Braun Auditorium, Stanford campus