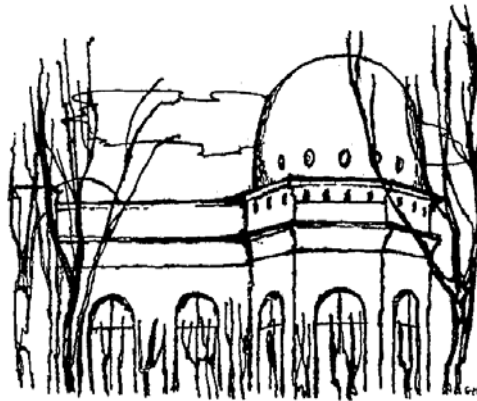




The 12th Paris Cosmology Colloquium

**“CMB, DM, DE, DARK AGES, LSS
IN THE STANDARD MODEL OF THE UNIVERSE”**
George Smoot, Nobel Prize of Physics and Daniel Chalonge Medal

OBSERVATOIRE DE PARIS 17, 18, 19 JULY 2008



**All Sessions of the Colloquium take place
in the historic PERRAULT building ("Bâtiment PERRAULT").**

**Observatoire de Paris ENTRY :
77, Avenue Denfert Rochereau, 75014 Paris**

Sessions start at the indicated times sharp

1 HOUR = 50 minutes lecture + 10 minutes discussions

Observatoire de Paris, Ecole Daniel Chalonge
Tel: 01 40 51 20 07 Fax: 01 40 51 20 02 Chalonge.Ecole@obspm.fr <http://chalonge.obspm.fr>

THURSDAY 17 JULY MORNING

8.00 - 9.10 GRANDE GALERIE (*in Perrault building just aside Salle du Conseil*) : Registration, badges, lunch tickets for the Observatoire Restaurant, copies of the Time Table.

« SALLE DU CONSEIL »

9.15 - 9.30 Welcome Address

9.30 - 10.30 Anthony N. LASENBY (Cavendish Lab. Cambridge, UK) *CMB Anisotropies and Polarisation: Status Report and Future Perspectives*

10.30 - 11.30 Eiichiro KOMATSU (Univ of Texas, Dept of Astronomy, Austin, USA)
WMAP 5yr Results: Cosmological Interpretation

11.30 - 12.00 COFFEE-TEA-MATE BREAK at SALLE CASSINI, *in Perrault building, upstairs of Salle du Conseil.*

12.00 - 13.00 Héctor J. DE VEGA (CNRS LPTHE Univ de Paris VI, France)
The Effective Theory of Inflation, Dark Matter and Dark Energy in the Standard Model of the Universe

13.00 - 14.30 LUNCH *at the Observatoire Restaurant (Building B, ground floor)*

THURSDAY 17 JULY AFTERNOON

« SALLE DU CONSEIL »

14.30 - 15.30 Ruth DALY (Penn State University, Reading, USA)
The Accelerating Universe and the Properties of Dark Energy

15.30 - 16.30 Ariel G. SANCHEZ (Obs de Cordoba, Argentina. Currently: Max-Planck-Institut für Extraterrestrische Physik, Garching, Germany)
What is the Best Way to Measure Baryonic Acoustic Oscillations?

16.30 - 17.00 COFFEE-TEA-MATE BREAK at SALLE CASSINI, in Perrault building, upstairs of Salle du Conseil.

17.00 - 18.00 Asantha COORAY (University of California, Irvine, USA)
Cosmology with the 21 cm Background

18.00 - 19.00 Simonetta DI PIPPO (Italian Space Agency, Observation of the Universe, Rome, Italy. Currently: ESA Directorate Human Space Flight).
The Cosmic Vission of ASI

FRIDAY 18 JULY MORNING

« SALLE DU CONSEIL »

9.30 - 10.30 Massimo GIOVANNINI (INFN Univ. Milano-Bicocca Dpt. di Fisica, Italy)
CMB Signatures of Cosmological Magnetic Fields

10.30 - 11.30 Claudio DESTRI (INFN Univ. Milano-Bicocca Dpt. di Fisica, Italy)
New Monte Carlo Markov Chain Analysis of WMAP data with the Effective Field Theory of Inflation

11.30 - 12.00 COFFEE-TEA-MATE BREAK at SALLE CASSINI in Perrault building, upstairs of Salle du Conseil.

12.00 - 13.00 Daniel BOYANOVSKY (Univ. of Pittsburgh, USA)
Constraints on Dark Matter Particles from Theory, Galaxy Observations and N-body Simulations

13.00 - 14.30 LUNCH at the Observatoire Restaurant (Building B, ground floor)

FRIDAY 18 JULY AFTERNOON

« SALLE DU CONSEIL »

14.30 - 15.30 Sabino MATARRESE (INFN Univ Padova, Italy) *Primordial Non-Gaussianity and the CMB*

15.30 - 16.30 Paul R. SHAPIRO (Univ of Texas, Dept of Astronomy, Austin, USA)
Cosmic Reionization and the End of the Dark Ages

16.30 - 17.00 COFFEE-TEA-MATE BREAK at SALLE CASSINI, in Perrault building, upstairs of Salle du Conseil.

17.00 - 18.00 Amy BARGER (Univ of Wisconsin, Madison, USA)
The Star Formation and Accretion Histories of the Universe

18.00 - 19.00 Martin KESSLER (ESA/RSSD ESTEC, Noordwijk, The Netherlands)
ESA's Cosmic Vision Plan

SATURDAY 19 JULY MORNING

« SALLE DU CONSEIL »

9.30 - 10.30 Bernard SADOULET (LBL, Univ. of California, Berkeley, USA)
Dark Matter, the Future Underground Science and DUSEL

10.30 - 11.30 Reno MANDOLESI & Carlo BURIGANA (INAF/IASF Bologna, Italy) *Measurements of the CMB by the PLANCK satellite and their Implications. The Low Frequency Instrument*

11.30 - 12.00 COFFEE-TEA-MATE BREAK at SALLE CASSINI in Perrault building, upstairs of Salle du Conseil.

12.00 - 13.00 Carlos S. FRENK (Inst. for Computational Cosmology, Durham, UK) *The Small-Scale Structure of the Universe*

13.00 - 14.30 LUNCH BREAK : BUFFET at SALLE CASSINI, in Perrault building, upstairs of Salle du Conseil for all participants and accompanying persons

SATURDAY 19 JULY AFTERNOON
« SALLE DU CONSEIL »

14.30 - 15.30 Lawrence M. KRAUSS (CWRU, Cleveland Ohio, USA) *Cosmology Confronts Fundamental Questions: From Dark Energy and Inflation, to the Future.*

15.30 - 16.30 George SMOOT (LBL, Univ. of California, Berkeley, USA) *CMB Observations and the Standard Model of the Universe*

16.30 - 17.00 **COFFEE-TEA-MATE BREAK** at **SALLE CASSINI**, in Perrault building, upstairs of Salle du Conseil.

17.00 - 18.00 Norma G. SANCHEZ (CNRS LERMA Observatoire de Paris, France) *Understanding of Inflation, Dark Matter and Dark Energy in the Standard Model of the Universe*

18.00 - 19.00 *Tour to the historic Perrault building guided by Prof. Suzanne DEBARBAT (SYRTE-Observatoire de Paris) around the subject “Mechain and the Meter” and Exhibition.*

19.00 - 21.00 **APERITIF/COCKTAIL** at **SALLE CASSINI** in Perrault building, upstairs of Salle du Conseil, for all participants and accompanying persons.

End of the Conference