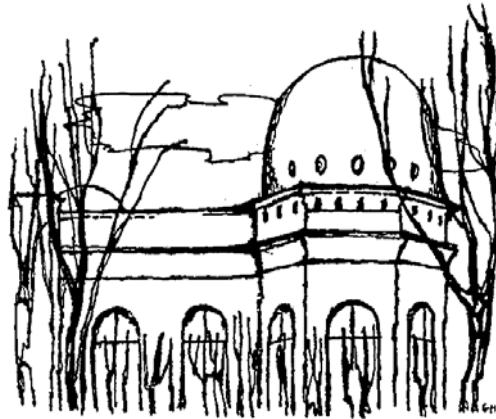




The 13th Paris Cosmology Colloquium 2009

**THE STANDARD MODEL OF THE UNIVERSE:
FROM INFLATION TO TODAY DARK ENERGY**
George Smoot, Nobel Prize of Physics and Daniel Chalonge Medal

OBSERVATOIRE DE PARIS 23, 24, 25 JULY 2009



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 23 JULY MORNING

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

« SALLE CASSINI »

9.15 - 9.30 Welcome Address

9.30 - 10.30 Anthony N. LASENBY (Cavendish Lab. Cambridge, UK) *The CMB in the Standard Model of the Universe: A Status Report*

10.30 - 11.30 Eiichiro KOMATSU (Univ of Texas, Dept of Astronomy, Austin, USA)
How WMAP Helps Constrain the Nature of Dark Energy

11.30 - 12.00 COFFEE-TEA-MATE BREAK at SALLE DU CONSEIL, *in Perrault building, downstairs of Salle Cassini.*

12.00 - 13.00 Héctor J. DE VEGA (CNRS LPTHE Univ de Paris VI, Paris, France)
The Effective Theory of Inflation and the Early Fast-Roll Stage, 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 23 JULY AFTERNOON

« SALLE CASSINI »

14.30 - 15.30 Tom ABEL (Stanford Univ., Physics Dept. CA. USA)

First Galaxies and Cosmological Reionization.

15.30 - 16.30 Paul R. SHAPIRO (Univ of Texas, Dept of Astronomy, Austin, USA)

Reionization History of the Universe and the 21cm Background

16.30 - 17.00 COFFEE-TEA-MATE BREAK at SALLE DU CONSEIL, in Perrault building, downstairs of Salle Cassini.

17.00 - 18.00 Alexander KASHLINSKY (NASA Goddard Space Flight Center, Greenbelt, MD, USA)

Probing large-scale peculiar flows of clusters of galaxies.

18.00 - 19.00 Peter BIERMANN (MPI-Bonn, Germany & Univ of Alabama, Tuscaloosa, USA)

Ultra High Energy Particles in the Universe

FRIDAY 24 JULY MORNING

« SALLE CASSINI »

9.30 - 10.30 Carlos S. FRENK (Institute for Computational Cosmology, Durham, UK) *Large and Small Scale Structure in the Standard Model of the Universe*

10.30 - 11.30 Gerard F. GILMORE (Institute of Astronomy, Cambridge University, UK)
Properties of Dark Matter on Small Astrophysical Scale

11.30 - 12.00 COFFEE-TEA-MATE BREAK at SALLE DU CONSEIL *in Perrault building, downstairs of Salle Cassini.*

12.00 - 13.00 James BULLOCK (University of California, Irvine, USA)
Milky Way Satellites: Near Field Cosmology with the Most Dark Matter Dominated Galaxies in the Universe.

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

FRIDAY 24 JULY AFTERNOON

« SALLE CASSINI »

14.30 - 15.30 Paolo SALUCCI (SISSA-Astrophysics, Trieste, Italy) *The Dark Matter Surface Density in Galaxies and Cored Density Profiles*

15.30 - 16.30 Nicola BARTOLO (INFN-Univ Padova, Italy)
Primordial Non-Gaussianity and the CMB in the Standard Model of the Universe (I)

16.30 - 17.00 COFFEE-TEA-MATE BREAK at SALLE DU CONSEIL, in Perrault building, downstairs of Salle Cassini.

17.00 - 18.00 Sabino MATARRESE (INFN-Univ Padova, Italy)
Primordial Non-Gaussianity and the CMB in the Standard Model of the Universe(II).

18.00 - 19.00 Asantha COORAY(University of California, Irvine, USA) *Sunyaev-Zel'dovich Effect Angular Power Spectrum : Measurements with BOOMERanG and Theoretical Comparisons*

PHOTO OF THE GROUP

SATURDAY 25 JULY MORNING

« SALLE CASSINI »

9.30 - 10.30 Reno MANDOLESI (INAF-IASF, Bologna, Italy)

Measurements of the CMB by the PLANCK satellite and their Implications

10.30 - 11.30 Claudio DESTRI (INFN Univ. Milano-Bicocca Dpt. di Fisica, Italy)

New Monte Carlo Markov Chain Analysis of CMB +LSS data with the Effective Theory of Inflation and the Early Fast-Roll Stage.

11.30 - 12.00 COFFEE-TEA-MATE BREAK at
SALLE DU CONSEIL in Perrault building, downstairs of Salle Cassini.

12.00 - 13.00 Massimo GIOVANNINI (INFN Univ. Milano-Bicocca Dpt. di Fisica, Italy)

Cosmological Magnetic Fields in the Standard Model of the Universe

13.00 - 14.30 LUNCH BREAK: Special Lunch at the Observatoire Restaurant (Building B, ground floor) for all participants and accompanying persons

SATURDAY 25 JULY AFTERNOON

« SALLE CASSINI »

14.30 - 15.30 George SMOOT (LBL, Univ. of California, Berkeley, USA) *CMB Observations and the Standard Model of the Universe*

15.30 - 16.30 Norma G. SANCHEZ (CNRS LERMA Observatoire de Paris, Paris, France)
Understanding of Inflation, the Early Fast-Roll Stage, and Dark Matter in the Standard Model of the Universe

16.30 - 17.00 COFFEE-TEA-MATE BREAK at SALLE DU CONSEIL, in Perrault building, downstairs of Salle Cassini.

17.00 - 18.00 : *The Daniel Chalonge Medal*

18.00 - 19.00 *Tour to the historic Perrault building guided by Prof. Suzanne DEBARBAT (SYRTE-Observatoire de Paris) around the subject "From Hipparque to the HIPPARCOS satellite" and Exhibition.*

19.00 - 21.00 APERITIF/COCKTAIL at SALLE DU CONSEIL in Perrault building, downstairs of Salle Cassini, for all participants and accompanying persons.

End of the Conference