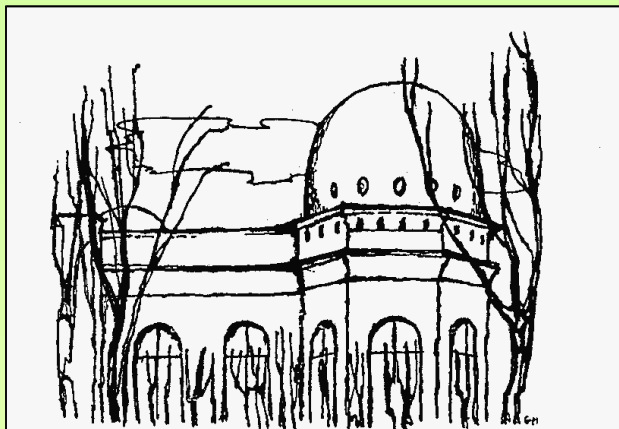


Ecole Internationale d'Astrophysique Daniel Chalonge

**8th Paris Cosmology Colloquium
"WMAP AND THE EARLY UNIVERSE"**

OBSERVATOIRE DE PARIS 9-10 December 2004



THURSDAY 9th MORNING at I.A.P, 98 bis Boulevard Arago, 75014 Paris

THURSDAY 9th AFTERNOON: "Salle de l'Atelier" (Atelier Room) of Observatoire de Paris, (located in front of the Restaurant building B).

FRIDAY 10th THE FULL DAY: "Salle du Conseil" (Council Room) in the historic PERRAULT building ("Bâtiment PERRAULT") of Observatoire de Paris.

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

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<http://www.obspm.fr/chalonge>

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THURSDAY 9 DECEMBER MORNING SESSION:

IAP, 98 bis, Boulevard Arago, 75014 Paris.

8.15 - 9.10 IAP Entry Hall: *Registration and sale of lunch tickets for the Observatoire Restaurant*

IAP AMPHITHEATER

9.15 - 9.30 Welcome Address

9.30 - 10.30 George SMOOT (LBL, Univ. of California, Berkeley, USA) *CMB Observations. Anisotropies and Polarization*

10.30 - 11.30 Hector J. DE VEGA (LPTHE, Univ. de Paris VI France) *Inflationary models and Fundamental Physics from WMAP data*

11.30 - 12.00 *COFFEE BREAK at the IAP Entry Hall*
Lunch tickets for the Observatoire Restaurant will be on sale during the break.

12.00 - 13.00 Sabino MATARRESE (Univ. di Padova, Italy) *Surprises from second-order Cosmological Perturbation Theory*

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

THURSDAY 9 DECEMBER
AFTERNOON SESSION:

At the "SALLE DE L'ATELIER" (ATELIER ROOM)
of OBSERVATOIRE DE PARIS
(located in front of the Observatoire Restaurant).

14.30-15.30 Olivier DORE (Univ. of Princeton, USA)
Cosmology as enlightened by WMAP: One Year After

15.30-16.30 Julien LESGOURGUES (LAPTH, Annecy, France)
Isocurvature Perturbations after WMAP

16.30-17.00 COFFEE BREAK at the Observatoire
Restaurant (Building B, ground floor)

17.00-18.00 Asantha COORAY (CALTECH Astrophysics, USA)
The Quest for Inflationary Gravitational Waves

**FRIDAY 10 DECEMBER,
THE WHOLE DAY**

**At the « SALLE DU CONSEIL »
Observatoire de Paris Bâtiment PERRAULT**

Reception Desk- Secretariat: at Grande Galerie

9.00-10.00 Hiranya PEIRIS (KICP, Univ of Chicago, USA)
Implications of WMAP for Early Universe Cosmology

10.00-11.00 Asantha COORAY (CALTECH Astrophysics, USA)
Reionization and its Signatures in the CMB.

11.00 – 11.30 COFFEE BREAK at Grande Galerie

11.30-12.30 Daniel BOYANOVSKY (Univ. of Pittsburgh, USA)
Inflaton Decay during Inflation and its Power Spectrum Implications

12.30-13.00 Andreas HEINEN, University of Dortmund, Germany
The Inflationary Perturbation Spectrum: Numerical and Analytical Approaches.

13.00-14.30 LUNCH BREAK at the Observatoire de Paris Restaurant, (building B, ground floor)

14.30 - 15.30 Alessandro MELCHIORRI (Univ of Rome "La Sapienza", Italy) *Cosmological constraints on Neutrino Physics*

15.30 - 16.30 Alexander DOLGOV (Univ. di Ferrara, Italy) *Cosmological Magnetic Fields and CMB Polarization*

16.30-17.00 *COFFEE BREAK, Grande Galerie*

17.00-18.00 Norma G. SANCHEZ (LERMA, Observatoire de Paris, France) *Inflation in Field and String Theory from the WMAP data*

18.00 - 18.30 *Tour to the historic Bâtiment Perrault:*

*“Au delà de la Terre:Europe explores the Solar System”
and « The length of the meter »*

guided by Prof. Suzanne DEBARBAT

18.30 - 20.30 *APERITIF/COCKTAIL , Salle du Conseil ,
for all participants and accompanying persons.*

End of the Conference