

BPol Satellite Workshop, 25-27 October 2006

Laboratoire de Physique Théorique, Université Paris-Sud (Orsay)
Bâtiment 210, Amphithéâtre 1, 2^{me} Étage

Wednesday, 25 October

Instrument Working Group Session (I)

COORDINATOR: DE BERNARDIS

- 09:30 - 09:40 Introduction (**F. Bouchet**)
- 09:40 - 10:10 The French View of BPol (**F.-X. Desert**)
- 10:10 - 10:15 The Cardiff view of Bpol (**A. Orlando**)
- 10:15 - 10:40 The UK view of BPol (**L. Piccirillo**)
- 10:40 - 11:10 The Italian View of BPol (**P. De Bernardis**)
- 11:10 - 11:30 *Coffee Break*

Instrument Working Group Session (II)

- 11:30 - 11:50 The Spanish View of BPol (**A. Rebolo**)
- 11:50 - 13:00 Open Discussion on Architecture and Critical Technologies
- 13:00 - 14:30 *Lunch Break*

Instrument Working Group Session (III)

- 14:30 - 15:00 The Experimental Probe of Inflationary Cosmology (**Jamie Bock**)
- 15:00 - 15:30 The Einstein Polarization Interferometer for Cosmology (**Greg Tucker**)
- 15:30 - 16:00 A Mission Concept Study for the Einstein Inflation Probe (TBC)
- 16:00 - 16:30 *Coffee Break*

Instrument Working Group Session (IV)

- 16:30 - 18:00 Open Discussion

Thursday, 26 October

Morning

09:30 - 11:00 **Science Case Working Group Session (I)**

COORDINATOR: BUCHER

9:30 - 9:35 **M. Bucher**, Introduction to Science Case Effort

Draft Sections: “Executive Summary” and “Introduction”

9:35 - 9:45 Presentation - **F. Bouchet**

9:45 - 10:00 Discussion

Draft Sections: “Inflation and fundamental physics”
and “Gravity Waves From Inflation and the B Mode”

10:00 - 10:10 Presentation - **K. Land**

10:10 - 10:30 Discussion

Draft Section: “Distinguishing the Primordial B Modes
From the Lensing Background”

10:30 - 10:40 Presentation - **F. Finelli**

10:40 - 11:00 Discussion

11:00 - 11:30 *Coffee break*

11:30 - 13:00 **Science Case Working Group Session (II)**

Draft Section “Exploitation of the Gravitational Lensing Signal”

11:30 - 11:40 Presentation - **L. Perotto**

11:40 - 11:55 Discussion

Draft Section: “Added Value of Improved Maps of
T and E Anisotropies”

11:55 - 12:05 Presentation - **L. Colombo**

12:05 - 12:15 Discussion

Draft Section: “Non-Gaussianity”

12:15 - 12:25 Presentation - **S. Matarrese**

12:25 - 12:30 Presentation - **R. Battye** (Topological Defects)

12:30 - 12:40 Discussion

Presentation Relating to Galactic Science

12:40 - 13:00 **J.-L. Bernard**

13:00 - 14:30 *Lunch*

Thursday, 26 October

Afternoon

14:30 - 16:00 **Science Case Working Group Session (III)**

Draft Section: "Analysis of Need to Go to Space"

14:30 - 14:40 Presentation - **J. Bartlett**

14:40 - 14:55 Discussion

Draft Section: "Data Analysis Issues"

14:55 - 15:05 Presentation - **R. Stompor**

13:05 - 13:15 Discussion

13:15 - 16:00 Further Discussion of Science Case

16:00 - 16:30 *Coffee break*

16:30 - 18:30 **Foreground Working Group Session (I)**

COORDINATOR: BURIGANA

16:30 - 16:45 **C. Burigana** (Bologna)

"Introduction: BPOL WG Description, Aims, and Activity" 15min

Talks on Specific Themes:

16:45 - 17:15 **C. Burigana** (Bologna)

"Analysis of Recent All-sky Radio Surveys About 1 GHz:

Implications for the Polarized Synchrotron

Emission and extrapolation to Microwaves"

17:15 - 17:45 **E. Carretti** (Bologna)

"Surveys of the Polarized Synchrotron

Emission at 2.3 GHz"

17:45 - 18:00 **J.P. Leahy** (Manchester) & **M.E. Jones** (Oxford)

"C-BASS: The C-Band All-Sky Survey"

18:00 - 18:15 **R. Beck** & **W. Reich** (Bonn)

"SKADS Polarization Simulations"

18:15 - 18:30 **J. F. Marcia-Perez** (Paris)

"Polemica : a blind polarized component separation algorithm"

20:00 *Soirée au restaurant à Paris, "Au Chien Qui Fume"*

Friday, 27 October

09:30 - 10:50 **Foreground Working Group Session (II)**

9:30 - 10:00 **C. Baccigalupi & F. Stivoli** (Trieste)

“ICA Based Component Separation and CMB Polarization”

10:00 - 10:10 **J. F. Marcia-Perez** (Paris)

“A simple but coherent model of the Polarized Galactic dust and synchrotron emissions”

10:10 - 10:20 **G. Siringo** (Bonn)

“Polka : a tunable polarimeter for bolometer arrays”

10:20 - 10:35 **J. Gonzales-Nuevo, M. Massardi**

& **G. De Zotti** (Trieste, Padova)

“Polarization Properties of Extragalactic Point Sources (EPS) at High Frequencies”

10:35 - 10:50 **M. Tucci & E. Martinez-Gonzalez** (La Laguna, Santander)

“Foreground Limits on the Detectability of the B-Mode by BPol”

10:50 - 11:15 *Coffee Break*

11:15 - 13:00 Open Discussion on Foreground and Component Separation Chapter
(possibly including brief communications)

11:15 - 11:30 **C. Burigana** (Bologna)

“A First Chapter Description” - 15 min

11:30 - 13:00 Discussion & Contributions from the WG

13:00 - 14:30 *Lunch Break*

14:30 - 16:00 **Plenary Discussion Session (II)**