

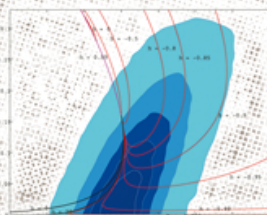
École Internationale Daniel Chalonge 13th Paris Cosmology Colloquium 2009

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, PARIS CAMPUS

Thursday 23, Friday 24, Saturday 25 July 2009



PROGRAMME and LECTURERS INCLUDE

- Tom ABEL (Stanford Univ., Physics Dept. CA, USA) First Galaxies and Cosmological Reionization.
- Nicola BARTOLO (INFN Univ Padova, Italy) Primordial Non-Gaussianity and the CMB in the Standard Model of the Universe (I).
- Peter BIERMANN (MPI-Bonn, Germany & Univ of Alabama, Tuscaloosa, USA) Ultra High Energy Particles in the Universe
- Daniel BOYANOVSKY (Univ of Pittsburgh, Dept of Physics and Astronomy, USA) Dark Matter Transfer Function, Free Streaming and Sterile Neutrinos as Dark Matter Candidates
- James BULLOCK (Univ. of California, Irvine, USA) Milky Way Satellites: Near Field Cosmology with the Most Dark Matter Dominated Galaxies in the Universe.
- Asantha COORAY (Univ. of California, Irvine, USA) Sunyaev-Zeldovich Effect Angular Power Spectrum: Measurements with BOOMERanG & Theoretical Comparisons
- 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.

- Eiichiro KOMATSU (Univ of Texas, Dept of Astronomy, Austin, USA) How WMAP Helps Constrain the Nature of Dark Energy
- Anthony N. LAZENBY (Cavendish Laboratory, Cambridge, UK) The CMB in the Standard Model of the Universe: A Status Report
- Hector J. DE VEGA (CNRS LPTHE Univ de Paris VI, France) The Effective Theory of Inflation and the Early Fast-Roll Stage, Dark Matter and Dark Energy in the Standard Model of the Universe
- Carlos S. FRENK (Institute for Computational Cosmology, Durham, UK) Large and Small Scale Structure in the Standard Model of the Universe
- Gerard F. GILMORE (Institute of Astronomy, Cambridge University, UK) Properties of Dark Matter on Small Astrophysical Scale
- Massimo GIOVANNINI (INFN Univ. Milano-Bicocca Dpt. di Fisica, Italy) Cosmological Magnetic Fields in the Standard Model of the Universe

- Reno MANDOLESI (INFN Univ Padova, Italy) Measurements of the CMB by the PLANCK satellite and their Implications
- Sabino MATARRESE (INFN Univ Padova, Italy) Primordial Non-Gaussianity and the CMB in the Standard Model of the Universe (II).
- Rafael REBOLO (Instituto Astrofísico de Canarias, Tenerife, Spain) CMB Polarization: The QUJOTE CMB Experiment
- Norma G. SANCHEZ (CNRS LERMA Observatoire de Paris, France) Understanding of Inflation and the Early Fast-Roll Stage, Dark Matter and Dark Energy in the Standard Model of the Universe
- Paul R. SHAPIRO (Univ of Texas, Dept of Astronomy, Austin, USA) Reionization History of the Universe and the 21cm Background
- George SMOOT (LBL, Univ. of California, Berkeley, USA) CMB Observations and the Standard Model of the Universe
- ... And Other Lecturers

PURPOSE AND TOPICS

The Conference is within the astrophysical spirit of the Chalonge School, focused on recent observational and theoretical progress on the CMB, dark matter, dark energy, dark ages, and the theory of the early universe with predictive power in the context of the Standard Model of the Universe.

In summary, the aim of the meeting is to put together real cosmological data and hard theory predictive approach connected to them in the framework of the Standard Model of the Universe.

An exhibition will retrace the activity of the Chalonge School and George Smoot participation to the School along these 18 years.

All participants are invited to take part in the discussions.

A tour of Perrault building guided by Suzanne DEBARBAT will take place around an exhibition of the historical patrimony of Observatoire de Paris.



Chalonge.Ecole@obspm.fr

<http://chalonge.obspm.fr>

H. J. DE VEGA

N. G. SANCHEZ

M. C. FALVELLA