

COLLOQUIUM

PHYSICS
OF THE
STANDARD
MODEL
OF THE
UNIVERSE:
THEORY AND
OBSERVATIONS

THURSDAY 4TH
AND FRIDAY 5TH JUNE 2009
9H-19H, IN ENGLISH

COLEGIO DE ESPAÑA
7E BD JOURDAN
75014 PARIS

In collaboration with
the École Internationale
d'Astrophysique
DANIEL CHALONGE



École Internationale Daniel Chalonge

<http://chalonge.obspm.fr>



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Universitaire de Paris
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design graphique: maximelemoyne.net

The Meeting is within the astrophysical spirit of the Daniel Chalonge School, with the aim to put together real astrophysical/cosmological data and hard theory approach connected to them.

There will be talks on theoretical and observational highlights in cosmology and high energy astrophysics focused in the Standard Model of the Universe.

The Meeting is open to all scientists interested in the subject.

Among the Lecturers of the Colloquium: George F. SMOOT, Director of the Cosmology Center at Berkeley, Nobel price of Physics 2006 and Daniel Chalonge Medal.

Registration is mandatory to attend the Colloquium
which will take place at the prestigious Colegio de España located
in the beautiful campus of the Cité Internationale Universitaire de Paris

ORGANIZERS

Marina RAMON MEDRANO
Universidad Complutense de Madrid,
Departamento de Física Teórica I,
Madrid, Spain

Norma G. SANCHEZ
Observatoire de Paris LERMA & CNRS, Paris, France

Héctor J. DE VEGA
Université Paris VI
LPTHE & CNRS,
Paris, France

Information and Registration:
http://chalonge.obspm.fr/colloque_ES2009.html

PROGRAMME AND LECTURERS

Fernando ARQUEROS
(Dpto. Física Atómica,
Univ. Complutense de Madrid, Spain)

*The Pierre AUGER
Observatory.
Last Results*

Didier BARRET
(Centre d'Études Spatiales CESR,
Cité des Sciences,
Toulouse, France)

*Black holes and
neutron stars revealed
through quasi-periodic
oscillations*

Francisco J. CAO
(Dpt. Física Atómica,
Univ. Complutense de Madrid, Spain)

*Quantum slow-roll
and quantum
fast-roll inflation:
CMB quadrupole
suppression and the
low CMB multipole*

Marco CIRELLI
(SPHT - CEA/Saclay
& CNRS,
Gif-sur-Yvette, France)

*Model-independent
implications of e^+ , e^- ,
anti-protons on the
properties of Dark
Matter and the
PAMELA data*

Claudio DESTRI
(INFN & Univ.
Milano-Bicocca,
Milan, Italy)

*Monte Carlo Markov
Chain Analysis of
CMB+LSS data with
the Effective Field
Theory of Inflation and
the early fast-roll stage*

Héctor J. DE VEGA
(Univ Paris VI LPTHE
& CNRS, Paris, France)

*The Effective Theory
of Inflation, Dark
Matter and Dark
Energy in the Standard
Model of the Universe*

Maria Cristina FALVELLA
(Agenzia Spaziale
Italiana, Rome, Italy)

*Measurements of the
CMB by the PLANCK
satellite and their
implications*

Philippe GORODETZKY
(APC-Univ Paris 7
& CNRS, Paris, France)

*The Extreme Universe
Space Observatory on
board ISS (JEM-EUSO):
Current status and
Perspectives*

Félix MIRABEL
(ESO European
Southern
Observatory, Chile
& CEA/Saclay, France)

*Black Holes
in the Universe*

Étienne PARIZOT
(APC Univ Paris 7,
Paris, France)

*Highest Energy Cosmic
Rays: Current Status
and Perspectives*

Sergio PASTOR
(CSIC Univ Valencia,
Valencia, Spain)

*Neutrinos
in the Early Universe*

Norma G. SANCHEZ
(Observatoire de Paris
LERMA & CNRS,
Paris, France)

*Understanding
of Inflation, Dark
Matter and Dark
Energy in the Standard
Model of the Universe*

Dmitri SEMIKOV
(APC-Univ Paris 7
& CNRS, Paris, France)

*The Highest Energy
Cosmic Rays*

George F. SMOOT
(Lawrence Berkeley
Lab. Univ California,
Berkeley, USA)

*CMB Observations
and the Standard
Model of the Universe*