Vrije Universiteit Brussel

International Solvay Institutes Brussels

ULB

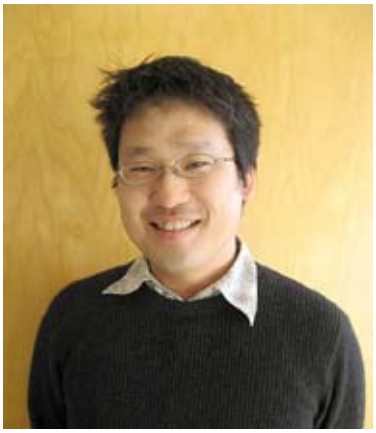
Solvay Colloquium

"The Cosmic Microwave Background as a Probe of the Very Early Universe"

Professor Eiichiro Komatsu

The University of Texas at Austin, USA

Abstract



The Cosmic Microwave Background (CMB), the fossil light of the Big Bang is the oldest light that one can ever hope to observe in our Universe. The CMB provides us with a direct image of the Universe when it was still an "infant" - 380,000 years old - and has enabled us to obtain a wealth of cosmological information, such as the composition, age, geometry, and history of the Universe. Yet, can we go further and learn about the primordial universe, when it was much younger than 380,000 years old, perhaps as young as a tiny fraction of a second? If so, this gives us a hope to test competing theories about the origin of the Universe at ultra high energies. In this talk I review the present status and future prospects on our quest to probe the physical condition of the very early Universe.

Tuesday 12 May 2009 at 16h00

COFFEE AND TEA WILL BE SERVED AT 15H45 IN FRONT OF THE SOLVAY ROOM

« SALLE SOLVAY » - SOLVAY ROOM

Université Libre de Bruxelles
Campus Plaine
Boulevard du Triomphe - Acess 2
Building NO - 5th Floor
1050 Brussels

www.solvayinstitutes.be

Ministère de la Communauté française

Wetenschap maakt knap
met de steun van de Vlaamse Regering