



Interdisciplinary European Academy of Sciences • Académie Européenne Interdisciplinaire des Sciences

## Conference in French: The nature of vacuum, from Galileo to dark energy, by Jean ZINN-JUSTIN

From 2015-02-02 to 2015-02-02, France

**Jean ZINN-JUSTIN is professor at the CEA / Research Institute on Fundamental Laws of the Universe, Saclay Center at Gif-sur-Yvette / France and president of the academic Senate comUE Paris-Saclay.**

Place : Maison de l'AX, 5 rue Descartes, F-75005, Paris, France.

Date February 2, 2015.

Time : 17:00.

Abstract :

Though the existence of a vacuum was already a matter of debate for the Ancient Greeks, it has become a truly scientific topic only in the seventeenth century with scholars like Galileo or Torriceli. In this talk we try to show that, in varying forms, the existence and nature of the vacuum has always been tied to fundamental scientific questions, in the past, for example, the existence of ether, more recently, for example, the nature of dark matter as proposed to explain the dynamics of galaxies or of the dark energy that influences the expansion of the universe.

References :

Jean Zinn-Justin, Zinn-Justin equation, Scholarpedia (2009), 4(1):7120

Jean Zinn-Justin, Critical Phenomena: field theoretical approach, Scholarpedia (2010), 5(5):8346

[http://www.scholarpedia.org/w/index.php?title=Critical\\_Phenomena:\\_field\\_theoretical\\_approach&printable=yes](http://www.scholarpedia.org/w/index.php?title=Critical_Phenomena:_field_theoretical_approach&printable=yes)

### Related information

#### Programmes

- FP7

#### Countries

- France

Last updated on 2015-01-13

Retrieved on 2015-01-15

Permalink : [http://cordis.europa.eu/event/rcn/141439\\_en.html](http://cordis.europa.eu/event/rcn/141439_en.html)

© European Union, 2015