

# Varying Constants and Fundamental Cosmology – VARCOSMOFUN'16



**Monday, 12 September 2016 - Saturday, 17 September 2016**

**Szczecin, Poland**

## Scientific Programme

The programme of the conference will contain 5 plenary morning sessions and 3 parallel sessions each afternoon. The last day of the conference (Saturday) will contain a morning session only and will be devoted to philosophical aspects of the variability of physical constants and the frontiers of physics and cosmology.

There will also be a poster session if the number of abstracts will be above our talk time capabilities. The oral presentations will be selected by the session conveners in collaboration with the Organizing Committee.

**The topics of the parallel sessions:**

## **Varying constants – theory**

(Convener: Mikhail Kozlov)

## **Varying constants – laboratory experiments**

(Convener: Ekkehard Peik)

## **Varying constants – astronomical observations**

(Convener: Michael Murphy)

## **Quantum gravity and cosmology**

(Convener: Mariam Bouhmadi-López)

## **Quantum entanglement and many-worlds interpretation**

(Convener: Sugumi Kanno)

## **Multiverse**

(Convener: Salvador Robles-Pérez)

## **Modifications of gravity**

(Convener: Jose Beltrán Jiménez, David Mota)

## **Dark matter – theory**

- “Inflation, early universe and dark matter”  
(Conveners: Mark Hindmarsh, Enrico Maria Sessolo)

## **Dark matter – experiment**

- “Observational cosmology and gravitational waves” (Convener: Vincenzo Fabrizio Cardone)

## **Dark energy – theory**

(Convener: Shinji Tsujikawa)

## **Dark energy – observations**

- “Observational cosmology and gravitational waves” (Convener: Vincenzo Fabrizio Cardone)

## **Inflation and large-scale structure**

- “Inflation, early universe and dark matter” (Conveners: Mark Hindmarsh, Enrico Maria Sessolo)

## **Early universe**

- “Inflation, early universe and dark matter” (Conveners: Mark Hindmarsh, Enrico Maria Sessolo)

## **Gravitational waves**

- “Observational cosmology and gravitational waves” (Convener: Vincenzo Fabrizio Cardone)

## **Cosmic Microwave Background, B-mode search**

- “Inflation, early universe and dark matter” (Conveners: Mark Hindmarsh, Enrico Maria Sessolo)

## **Future challenges and experiments**

- “Observational cosmology and gravitational waves” (Convener: Vincenzo Fabrizio Cardone)

## **Varying constants and anthropic principles**

- “Philosophy and cutting edge of physics and cosmology” (Convener: Mariusz P. Dąbrowski)

## **Cutting-edge of physics and cosmology**

□ “Philosophy and cutting edge of physics and cosmology” (Convener: Mariusz P. Dąbrowski)