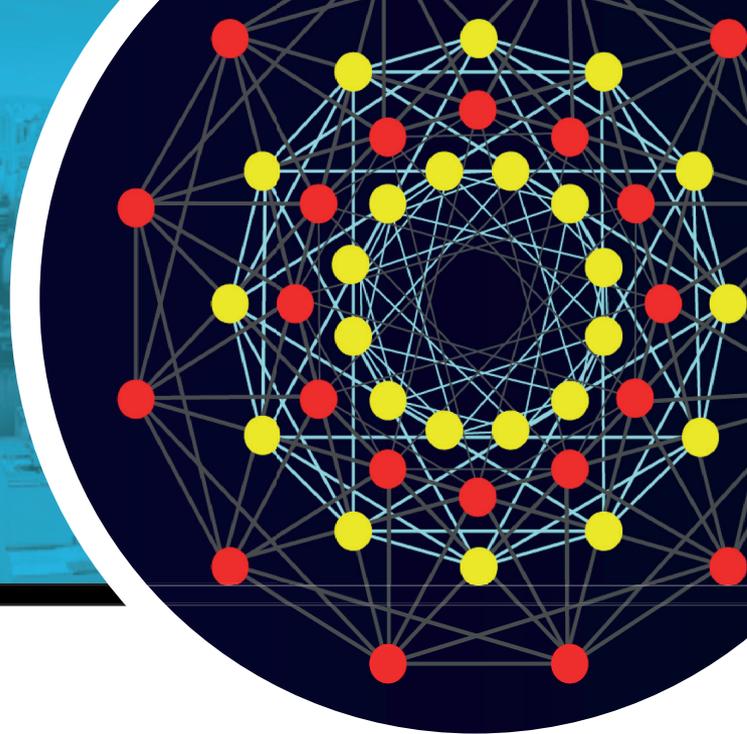




International Centre  
for Theoretical Physics  
South American Institute  
for Fundamental Research

# WORKSHOP ON QUANTUM SYMMETRIES



**October 16-18, 2019**

**at Instituto de Física Teórica - UNESP, São Paulo, Brazil**

## LECTURERS

**Nicolás Andruskiewitsch** (U. Nacional de Cordoba, Argentina)

**Yuly Billig** (Carleton U., Canada)

**Jethro van Ekeren** (U. Federal Fluminense, Brazil)

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**Sonia Natale** (U. Nacional de Cordoba, Argentina)

**Julia Pevtsova\*** (U. of Washington, USA)

**Bárbara Pogorelski** (U. Federal do Rio Grande do Sul, Brazil)

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**Cristian Vay** (U. Nacional de Cordoba, Argentina)

\*to be confirmed

Symmetry in nature and in mathematics may be encoded by groups of symmetry operations, or more generally by the action of Hopf algebras (quantum symmetry). Several powerful tools are used for understanding these actions, such as Lie theory, group theory, tensor categories, fusion categories, and cohomology. The areas to which these ideas apply range from such classical subjects as geometry,

combinatorics and algebra to quantum computations, vertex algebras and conformal field theories.

Despite the growing number of people working on quantum symmetries in these different areas and a reasonable number of conferences in the respective areas, the cross-pollination of these different subjects at a single conference is rare and the communities interested in quantum symmetries for different reasons do not have substantial overlap.

The goal of this workshop is to bring together specialists and young mathematicians specializing in these areas to develop newly emerging connections and foster communication and sharing of ideas. This event will consist of research and panoramic talks related to several subject areas united by their applications to quantum symmetries.

*There is no registration fee.*

**Registration deadline:**

**August 18, 2019**

**Online registration form and information:**

<http://www.ictp-saifr.org/mathphys19>



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