

## São Paulo International Schools on Theoretical Physics



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### Symbolic Computation in Theoretical Physics: Integrability and super-Yang-Mills

**November 5 - 16, 2012**

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

The goal of the school is to bring together theoretical physicists of all levels who want to learn both symbolic computational methods and a selected advanced research topic in theoretical physics. The topic for this year's edition will be the Spectrum and Correlation Functions of Supersymmetric Yang-Mills theory and Integrability. The symbolic computational methods will be mostly based on the use of Mathematica and will focus on examples in this physics topic. **There is no registration fee.**

#### Lecturers:

**Konstantin Zarembo** – Nordita Institute (Stockholm)  
Introduction to Integrability and super-Yang-Mills

**Romuald Janik** – Jagellonian Univ. (Krakow)  
Integrability and AdS-CFT

**Pedro Vieira** – Perimeter Institute (Waterloo)  
Symbolic Computations in super-Yang-Mills and Integrability, Part I

**Gregory Korchemsky** – Inst. de Phys. Theorique (Saclay)  
Correlation Functions in super-Yang-Mills

**Nikolay Gromov** – King's College (London)  
Symbolic Computations in super-Yang-Mills and Integrability, Part II

#### Organizers:

**N. Berkovits** (IFT-UNESP, São Paulo), **N. Gromov** (King's College, London),  
**P. Vieira** (Perimeter Institute, Waterloo)

The online application form and more information can be found at:

[www.ictp-saifr.org/symbolic](http://www.ictp-saifr.org/symbolic)

The application deadline is **September 1, 2012.**

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