

## VII Leopoldo García-Colín Mexican Meeting on Mathematical and Experimental Physics



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Type: **not specified**

### **HUGO COMPEÁN: Deformation quantization of superstrings**

*Thursday, 20 February 2020 19:00 (30 minutes)*

In this work the quantization of the superstring is performed via the deformation quantization formalism in the Neveu-Schwarz- Ramond approach. We use the Weyl-Wigner-Moyal-Groenewold formalism to carry out the quantization. The Stratonovich-Weyl operator, the Moyal star product and the Wigner function of the ground state for the superstring are obtained. The spectrum of states is also obtained in the light-cone gauge of the superstring. Finally we give some remarks of a generalization to string field theory.

**Session Classification:** SHORT TALKS

**Track Classification:** SYMPOSIUM ON BLACK HOLES AND GRAVITATIONAL WAVES