

**Stony Brook University
The Graduate School**

Doctoral Defense Announcement

Abstract

Covariant quantization of the superstring

By

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I will review the topic “Covariant quantization of the superstring” in historical point of view and then I will give some basics of the 1st quantized Becchi-Rouet-Stora-Tyutin (BRST) formalism. After introducing the 1st quantized BRST formalism I will give a new BRST operator with infinite tower of ghost pyramid which I used to build a new quantization prescription for superparticle and superstring. Finally I will give some working examples in this new prescription and comments on future research.

Date: 07/25/2007

Time: 11:30AM

Place: YITP common room, 6th fl Math tower.

Program: Physics and Astronomy

Dissertation Advisor: Warren Siegel