Physics 234A: String Theory

Prof. Mina Aganagic Fall 2013

Homework 5.

1	Problem: chanics	Supersymmetric	Quantum	Me-
1.1				
В.В.	S. 4.1.			
1.2				
В.В.	S. 4.2.			
1.3				
B.B.S. 4.3				
2	Problem:	Superstring Spect	trum	
2.1				
В. В	. S. 4.5.			
2.2				
В.В.	S. 4.6.			
2.3				
В.В.	S. 4.7.			

3 Problem: BRST symmetry of Superstring

3.1

Starting from the definition for the BRST operator in superstring, eqn 4.150 of B.B.S. derive the transformations of the fields in eqns (4.144) to (4.149) of B.B.S.

3.2

B.B.S 4.13.

3.3

B.B.S. 4.15.