Bogdan Stoica

Title: The p-adic 2-brane and its quantization

Abstract: I will present a model of a p-adic two-brane constructed from the Bruhat-Tits tree, building on earlier work with An Huang and Shing-Tung Yau. I will discuss restrictions arising from the time-evolution, as well as the canonical quantization procedure, conserved quantities and symmetries. Time permitting, I will also discuss the spectrum of excitations. Based on joint work with An Huang and Xiao Zhong.