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Strings in Ramond-Ramond (RR) Backgrounds from the Neveu-Schwarz-Ramond (NSR) Formalism

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In contrast to the fact that there are many interesting solutions to supergravity equations of motions describing backgrounds around which we can study physics, perturbative string theoretic approach to such backgrounds was mostly limited to special cases. In particular, it is commonly believed that the NSR formalism of perturbative string theory has limitations in describing type II strings in RR background. In this talk, I discuss how we can systematically describe RR flux backgrounds in the framework of closed superstring field theory based on the NSR formalism, and present two applications of the framework: the pp-wave background supported by 5-form flux and AdS₃×S³ supported by mixed 3-form fluxes.

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