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Verification of the Ward Identities and Generalization to the Comma Field Theory BENJAMIN SAUERWINE, ABDULMAJEED ABDURRAHMAN¹, Shippensburg University — The proof for the Ward identities in the gauge invariant open string field theory of Witten requires checking a set of mathematical identities. These identities are cumbersome to establish analytically. In this paper we construct a numerical procedure capable of checking the Ward identities to any desired level. Furthermore, we discuss the generalization of the Ward identities to the Comma field theory of the open bosonic string and discuss how the generalized Ward identities can be established numerically.

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