

Quantum Gravity and the dilaton portal

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In this brief talk I discuss two aspects of a novel approach to quantum gravity, the first of these is the construction of evanescent operators of the dilaton which provides an initial direction to finding solutions to the inherent problems of non-renormalizability of quantum gravity. The second is the use of the Batalin-Vilkovisky anti-field technique and how this can be used with cohomological techniques to restrict the terms in our action. Following this, and time permitting, a brief review of present and future work will be discussed.

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