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Pseudo-Democratic Superstring Field Theory

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In recent progress in second quantization of the RNS string a crucial role is played by line integral Picture Changing Operators (PCO) which avoid the singularities associated with local PCOs.

We show how this approach can be generalized to a "democratic" theory involving vertices with arbitrary picture number. The usual cohomology problem in the Large Hilber Space can then be reformulated in terms of a dual problem with a two parameters gauge symmetry. The interactions then emerge in a way analogous to Berkovits' picture zero NS theory and do not exhibit an explicit A_{∞} structure (possibly recoverable by field redefinitions). Batalin-Vilkovisky quantization is therefore expected to be nontrivial.

Primary author: GIACCARI, Stefano Gregorio (Holon Institute of Technology (HIT))

Co-author: Dr KROYTER, Michael (Holon Institute of Technology (HIT))

Presenter: GIACCARI, Stefano Gregorio (Holon Institute of Technology (HIT))

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