



Contribution ID: 78

Type: **not specified**

Supersymmetric Localisation = Gauge Fixing with a Twist: Refinements in the Batalin-Vilkovisky Formalism

Thursday 18 December 2025 09:10 (30 minutes)

In this talk, I will describe how supersymmetric localisation can be reinterpreted and enhanced through the BV formalism. I will give a brief review of supersymmetric localisation, followed by a brief review of BRST quantisation. After this, I will explain how localisation can be reinterpreted through the BRST framework. Then, I will explain how the BV formalism improves on the BRST formalism for localisation, and how this leads to improved methods for supersymmetric localisation with on-shell closing supermultiplets.

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Session Classification: A Mad Formal QFT Party