

# Hamiltonian Truncation with Larger Dimensions

*Tuesday 31 May 2022 14:00 (1 hour)*

Hamiltonian Truncation (HT) is a numerical approach for calculating observables in a Quantum Field Theory non-perturbatively. This approach can be applied to theories constructed by deforming a conformal field theory with a relevant operator of scaling dimension  $\Delta$ . In this talk I will review the HT techniques and emphasise few key open problems. I will also discuss the recent efforts to extend these ideas to higher dimensions ( $d > 2$ ) and for UV divergent relevant operators ( $d/2 \leq \Delta < d$ ).

**Presenter:** ELIAS MIRÓ, Joan (ICTP)