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Flux Correlators and Semiclassics

Friday 8 July 2022 11:30 (30 minutes)

I will talk about charge and energy flux correlators in a Lorentzian CFT in the presence of a large U(1) charge n produced by an external excitation. This type of object is particularly interesting as it is very close to observables used in collider physics. Even considering a weakly coupled theory, the standard perturbative expansion breaks down at large λn, with λ the theory's coupling. In this situation, correlators can still be computed in a semiclassical expansion around a non-trivial saddle point. Applying this formalism developed in Euclidean CFT to the computation of correlators of non-local operators in a Lorentzian context raises specific challenges.

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