

# CFTs at large Charge Sector and Heavy Ion collisions

*Friday 20 June 2025 10:00 (30 minutes)*

In the last years, there has been a growing interest in a special type of Quantum field theories called Conformal Field Theories (CFTs). The structure of the correlators from these theories are known to be extremely simple, making them a very attractive theoretical object. In this talk, I will present my Master Thesis which tries to illustrate using two different models, one possible approach that we can take to exploit those advantages.

I will also use this opportunity to briefly present the current and future research that I will be doing during my PhD in UiB. I will introduce the Light-front formalism and link it to high-energy jets and I will also talk about the multiple scale problem that one has to face when studying Quark Gluon Plasma (QGP).

**Co-authors:** TYWONIUK, Konrad (University of Bergen (NO)); FIOL, Tomeu

**Presenter:** MESTRE, Narcis (Bergen)

**Session Classification:** Talks