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## Exploring thermal CFTs

*Tuesday 3 September 2024 11:30 (30 minutes)*

In this talk, I will present recent developments in the study of Conformal Field Theories (CFTs) at finite temperature. Thermal dynamics are constrained by the Kubo-Martin-Schwinger (KMS) condition. I will present novel sum rules for one-point functions, providing a basis for setting up a numerical bootstrap problem. The KMS condition can also be used to extract the leading behaviour of one-point functions for heavy operators analytically. What is more, I will extend the thermal bootstrap approach to temporal line defects, akin to Polyakov loops in gauge theories. The power of this framework will be demonstrated with specific examples.

**Link to publication (if applicable)**

**Presenter:** POMONI, Elli (DESY)

**Session Classification:** Plenary session